

Designed & Developed by

# Berkeley

**Sutardja Center for  
Entrepreneurship & Technology**  
COLLEGE OF ENGINEERING



## Sumeru Innovation X

A program based on the Powerful Innovation and Entrepreneurship Framework developed at the SCET at University of California, Berkeley.

**Entrepreneurship**

**Innovation**

**Mindfulness**

Exclusive National Strategic Education and Training Partner



Everywhere else, the model has been done backwards. Students usually take a set of classes and then apply the courses towards a cookie-cutter problem. At Sumeru Innovation, we start with real-life, broad problems or challenges. Every aspect from the support courses, mentor networks, processes, and learning activities now revolves around the student's inspiring problem. You will be able to create new friends, colleagues, and professional networks while working on a real-life innovative challenge.

**Sumeru Innovation X** is for technical professionals and innovators, this program explores key management and leadership concepts relevant to technology-dependent enterprises. Class participants undertake intensive study of actual business situations through rigorous case study analysis. Selected content from this course is based in part on the in-person executive-level Engineering Leadership Professional Program offered by UC Berkeley's College of Engineering through the Sutardja Center for Entrepreneurship & Technology. Topics include Innovation leadership framework (tactics, culture, leadership); strategy and core competencies; tactics, execution, and business design for new projects; case studies of Zappos, Dropbox, Intel, E Ink, and Dr John's.



## Ikhlaq Sidhu

Chief Scientist and Faculty Director, Sutardja Center  
IEOR Emerging Area Professor Award  
UC Berkeley

# How emerging tech is revolutionizing career choices in India?

- 1** The Career Conundrums: Identifying Your Career Hurdles
- 2** Emergence of Entrepreneurship with Emerging Tech
- 3** Talent And Demand Supply Gap

# The Career Conundrums: Identifying Your Career Hurdles

**Changing working environment, opportunities in new technologies, potentially marketable products leveraging the emerging technologies – How is the technology world shaping up?**

- Which industry should I look for a job in?
- How do I get placed in an organization working in an area of my technical interest?
- What are my peers pursuing - should I pursue the same or explore potentially better opportunities?
- Which industries and technologies are offering a scope for better career opportunities - how are industries shaping w.r.t emerging technologies?
- Should I acquire a new skill? Which one and why?
- Which skills are in focus in the current technology landscape?
- Is there a program available which will help me acquire the skills in demand?

## Entrepreneurship?

- Is there a startup or a venture ecosystem available in India?
- How can I connect with mentors who can guide me in my entrepreneurial journey?
- How can I contribute to "Make in India" by creating a new Intellectual Property?



## Opportunities?

- Are there new doors open for entrepreneurship?
- Has there been tech-enabled growth?

---

**Is Upskilling in Emerging Tech, Leadership & Entrepreneurship the Answer?**

**Is there a platform which can fast-track my up-skilling journey?**

---

# Emergence of Entrepreneurship with Emerging Tech

With the emerging technologies at the forefront, possibilities are limitless. How can one adapt to these changes? Acquiring skills in emerging technologies and gaining industry insights to enable innovative IP creation to solve global challenges is the answer.

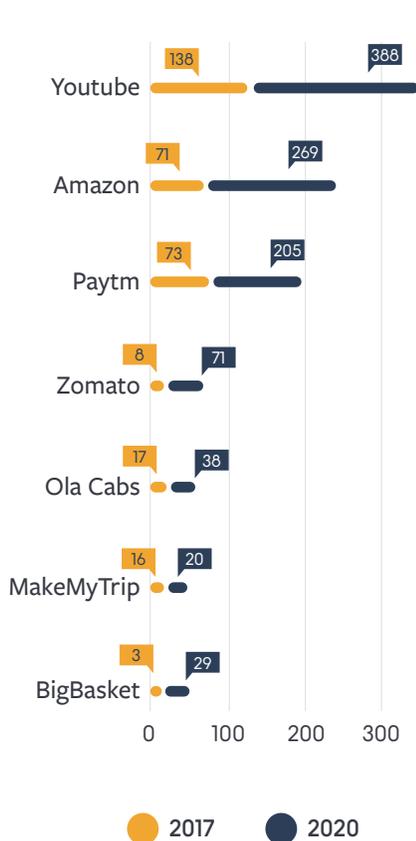
India's growth story is fueled by tech, enabling organizations across verticals towards tremendous growth. This growth has not only led to a rise in start-ups but also propelled the growth of significant employment opportunities across the industry verticals.

## Consumer Led Digital Leap

Increased app usage contributing to significant opportunities for internet companies

### Increase App Usage

Unique visitors across verticals (Mn)



### India Internet's \$180Bn Opportunity

	FY20 GTV	FY20-25E CAGR	FY25E GTV	Take Rate*	FY25E revenue	Profit* margin	FY25E profits	Assumed multiple	Valuation (FY24E)	Time to Profit.	Key Players
E-comm	\$32B	29%	\$114B	11%	\$43B	8%	\$3.7B	30x	\$110B	2-3 years	Amazon, Flipkart, Bigbasket
Travel	\$16B	14%	\$30B	8%	\$2.4B	12%	\$0.3B	30x	\$8B	0-1 years	MMYT, Oyo, Booking
Food & ride hailing	\$7B	19%	\$17B	25%	\$4.1B	14%	\$0.6B	30x	\$17B	0-1 years	Swiggy, Ola, Zomato, Uber
Gaming & OTT/video	\$2.3B	30%	\$9B	25%	\$6.3B	18%	\$1.1B	30x	\$34B	2-3 years	Disney, Dream11, Youtube
Ads	\$2.3B	18%	\$5B	NA	\$5B	23%	\$1.2B	25x	\$31B	Profit-able	Google, Dailyhunt, Facebook
Education	\$1B	48%	\$5B	NA	\$5B	22%	\$1.1B	30x	\$33B	Profit-able	Byju's Unacademy
Fintech/ Payments	NA	NA	NA	NA	\$2.5B	20%	\$0.5B	30x*	\$20B	3-4 years	PayTM, PhonePe, Google
<b>India Internet</b>	<b>\$60B</b>	<b>25%</b>	<b>\$180B</b>	<b>NA</b>	<b>\$69B</b>	<b>12%</b>	<b>\$8.5B</b>		<b>\$254B</b>		

Source: Goldman Sachs India Internet Report

Source: TV Mohandas Pai

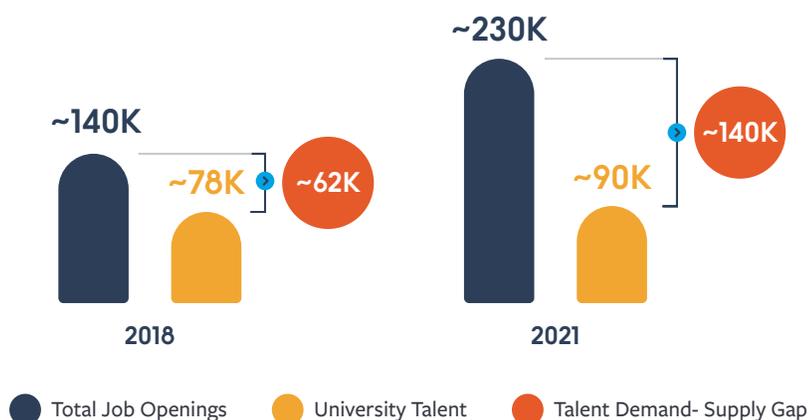


# Talent Demand & Supply Gap

India still faces a considerable gap in Talent Demand & Supply. For sustainable long-term growth, a pool of readily available workforce, skilled in the latest and emerging technologies holds the key.

There is an untapped potential waiting to emerge and establish itself in India and **you** can be the flag-bearer for the next innovation.

## Talent Demand-Supply Gap in India



**140K**

Potential Job opportunities in the field of AI, ML, Data Science etc, in 2021.

**20x**

The demand for Digital Talent jobs is expected to rise 20 times by 2024

The Talent demand & supply gap in the last 3 years in Emerging Tech saw an increase of **16%** in India. This figure is expected to rise exponentially in the coming years.

# How Sumeru Innovation X are the right upskilling partners?

1

Core Values, Purpose

2

Program Objectives

3

Program Outline

4

Learning Journey

5

Why are we the right upskilling partners

6

Mentor

7

Partners in VC Funding

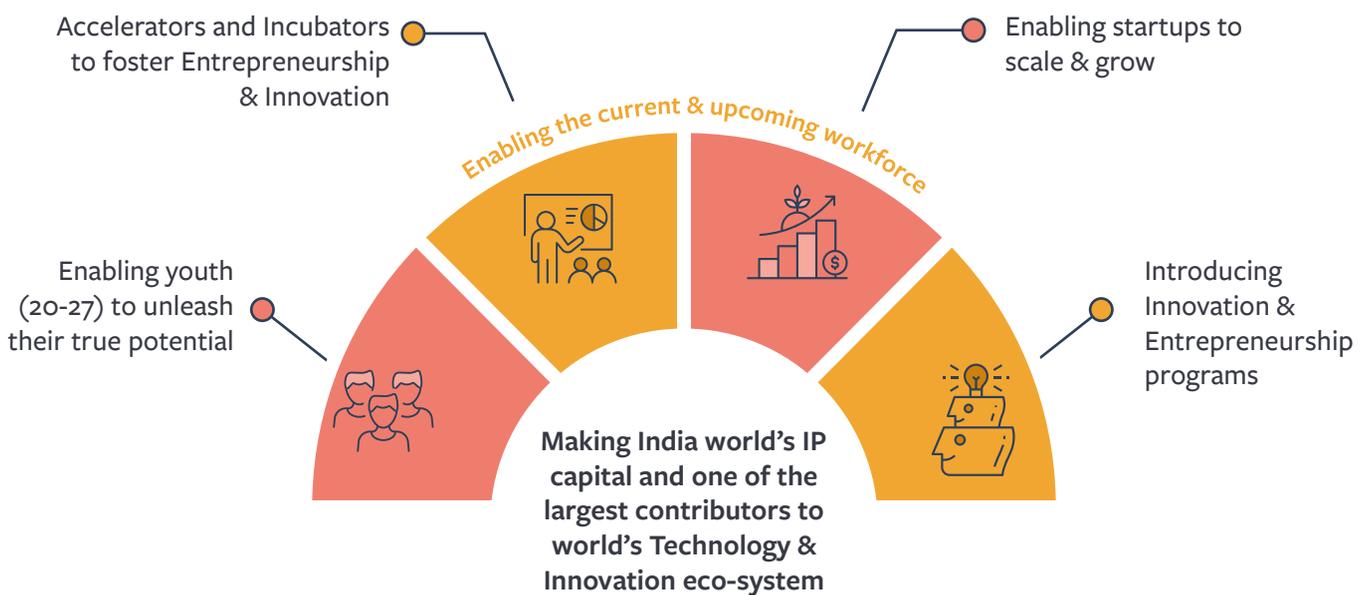


# Sumeru Innovation: Our Core Values

Our vision is to empower the youth of the nation with the right skill set to help them unleash their true potential while at the same time creating a tech and innovation based ecosystem that will nurture, foster and accelerate the growth of entrepreneurs.

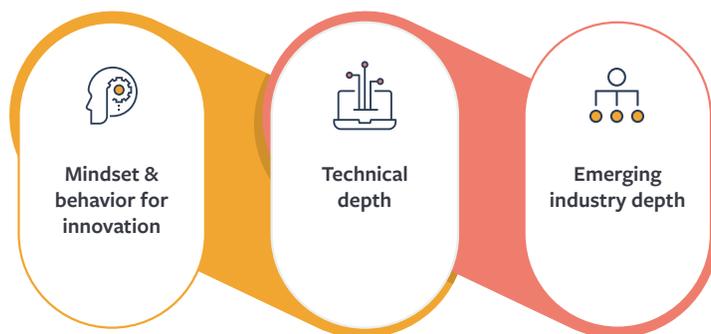
**We aim to build leaders today so that they can lead the future tomorrow.**

Sumeru Innovation has partnered with the Sutardja Center for Entrepreneurship & Technology at the University of California, Berkeley to create and aggregate talented individuals and advanced resources to offer solutions and thought leadership to our clients.





Sumeru Innovation X program is designed, developed and will be jointly delivered by UC Berkeley's Sutardja Center for Entrepreneurship & Technology (SCET) using the frameworks of the Berkeley Method of Entrepreneurship and Berkeley Method of Innovation



Sumeru Innovation X program created along with SCET at University of California, Berkeley-

- #1 **Public University in USA**  
Source: US News
- #2 **University in the world for entrepreneurs**

IIEduTech (IIEPL) is the Exclusive National Strategic Education & Delivery Partner for delivery of the certification/program across India as an initiative to promote and revolutionize technology-based innovation and IP creation.

# Program Objectives

Our panel of distinguished faculty, lecturers, entrepreneurs, and tech experts from UC Berkeley and Silicon Valley will be mentoring the talents with an assortment of both recorded and online live classes, lectures followed by graded assignments, one-on-one performance analysis sessions with the faculty and live office hour.



Identifying and evaluating new opportunities



Improving project conceptualization and technical leadership



Develop critical thinking, problem-solving attitude and an open mindset



Correlating innovation projects to business strategies



Developing a supportive ecosystem for innovating projects



Building a Winning Team



Opportunity Recognition & Market Validation



Story and Execution - Pitching with NABC



Venture ecosystem



Go-to-Market and Value Extraction



Research-based Entrepreneurship with Leadership



Innovation Culture



Concepts of Core Competence, Technology Strategy

# Program Outline

## Duration

3/6/9 Months

## Mode

Online / Hybrid

## Core Streams



Technology



Entrepreneurship



Mindfulness

## Technology Electives

- Computer Science and Backend development
- Computer Science and Frontend web development
- Augmented Reality, Virtual Reality & Visual Collaboration
- Full stack web development - With specialization in AI/ML
- Linux programming, Advanced Algorithms and Blockchain



## Innovation Leadership

The learning from a decade of success with SCET at UC Berkeley's Method of Innovation Leadership is integrated within the program and includes Harvard case studies for a broad experiential view of the issues to be managed.

## Behaviour & Mindsets

Innovation Engineering concepts developed at SCET, UC Berkeley and taught at leading technology firms like Google, Apple, Samsung, Cisco, Bosch, Applied Materialism, Yahoo, PayPal, Volvo, and many other cutting-edge companies.

## Science of Happiness

Ancient wisdom contextualized to modern realities and practice breathing techniques. This will allow individuals to eliminate stress, enhance efficiency and productivity levels, and achieve work-life balance.

## Capstone Project

A fully integrated, open-ended, real-life innovation project in the area of the selected technology elective. This project is a centrepiece that integrates theory, networks of people, business, process and innovation mindset. From the Data to Decision programs, and business analytics, the program will culminate with a capstone project solving complex problems.

## For Whom

- Specially designed for Science, Technology and Engineering students & graduates with some coding background to further their career in emerging tech. or to establish a start-up.
- Management students & graduates with an innovative idea and looking for entrepreneurship concepts and/or building a technical team.
- Corporates and other organizations looking to reskill/upskill their employees in emerging tech. to take up leadership positions



**In less than 10 years, half of all the new cars sold globally will be electric. "Profound implications for the climate, but also auto and energy companies. Many industries are existentially threatened. Innovate or die, the 21st-century mantra**



**Shri Uday Kotak**

CEO Kotak Mahindra Bank

# Learning Journey



# Why are we the right upskilling partners?

## Bridging the Gap

Specially designed curriculum to bridge the gap between theory and practice.



## A COMPLETE END TO END DIGITAL ECOSYSTEM FOR SKILLS IN EMERGING TECHNOLOGIES, ENTREPRENEURSHIP, INNOVATION AND MINDFULNESS.



### Instructors from Industry

Experienced educators including instructors with experience at top-tech companies



### Global Ecosystem

Our ecosystem is supported by VC Funds, Incubators, Universities, Colleges and Corporates



### Cutting Edge Curriculum

Designed by professor Ikhlaz Sidhu at SCET, UC Berkeley in collaboration with industry leaders



### Earn Certificate by SCET at UC Berkeley

On successful program completion, students will receive certificate from Sutardja centre for entrepreneurship and technology SCET UC Berkeley.



### Powerful Support Network

Global network of executives, professionals and leaders including faculty of SCET at UC Berkeley, Entrepreneurs, and Venture Capitalists from Silicon Valley



### Startup Funding & Incubation

Chosen projects may receive seed funding and support to pursue their idea further

# Mentoring Cohorts

Large Pool of Mentors from the Industry across the globe, to support students in their learning journey.



## Partner VC Funds



**Sumeru Global Digital Technology Fund**  
United States

More than 10 partner VCFunds to support the innovative product's start-up journey.

# How will this Program set you apart from your peers?

- 1 Unlike Any Experience you have ever had
- 2 There's More
- 3 Certificates

# Unlike Any Experience, You Have Ever Had



## Bring your ideas and objectives into an integrative project

It can be used for everything from starting a new venture to interviewing with industry leaders.



## Create Your Reference Network

Don't try this alone. From online videos to in-person coaching sessions, allows future technical leaders to get started in new career directions.



## Efficient, Tried & Tested

Unlike other online courses, Sumeru Innovation X is not lengthy in terms of its duration, user-friendly with the program structure, rigorous with regular assessments, practical with intense hands-on experience and above all customized and oriented as per the requirement of the applicant.



## Develop broad and deep capabilities

Learn technically deep skills needed for technology positions and new ventures. Also learn the broad, business-oriented skills and behaviours needed for career success.

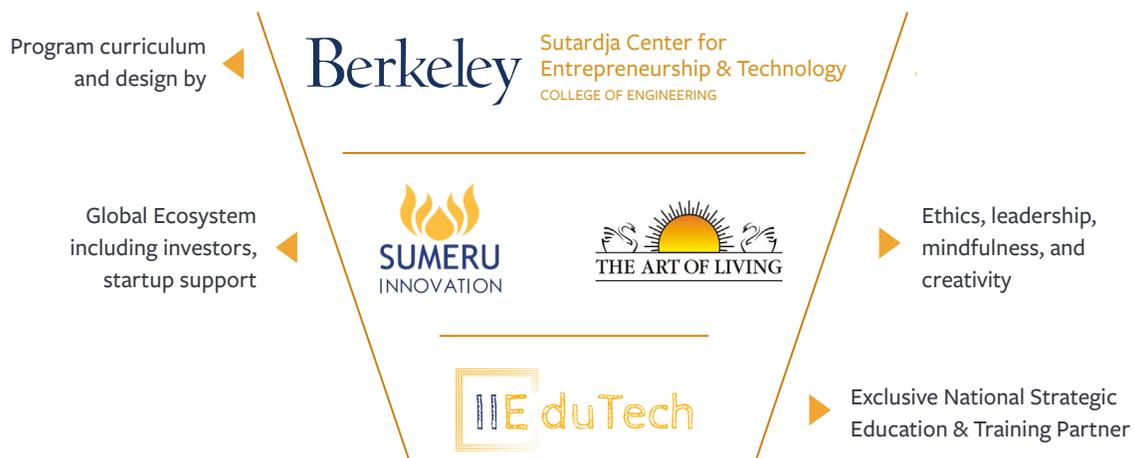




# There's More

The students, entrepreneurs and talents enrolling for the program get access to some of our handpicked and trademark content curated and crafted by Sumeru to add those finishing touches to their reskilling/ upskilling journey. From funding to inculcating life values, ethics, leadership and creativity, we leave no stone unturned in facilitating you acting as the change-makers and visionaries.

## Content Design & Development



# Certificates



# What does Berkeley Certification add to your profile?

1

About SCET at UC Berkeley

---

2

Berkeley Method of Entrepreneurship Fundamentals

---

3

How will the Berkeley experience help you kickstart your professional journey

---

4

Opportunity to study at SCET Berkeley

# About SCET at UC Berkeley

## #2 University in the World for Entrepreneurs.

Sutardja Center for Entrepreneurship & Technology at the University of California Berkeley and Sumeru has engaged advanced resources to design and develop cutting edge programs and certifications to augment accelerated learning and skill enhancement for the participants.

- **Developing Entrepreneurs and Innovators:** SCET emphasizes hands-on learning, offers a suite of courses, programs and Certificate of Entrepreneurship & Technology.
- **Global Innovation Collider:** Programs such as Global Partners at UC Berkeley, Global Venture Lab, Berkeley Method of Entrepreneurship Bootcamp and Start-up Semester create rich interaction among the students and professors around the world to spur the growth of ideas into ventures.
- **Driving Future Technologies:** SCET's Innovation X initiative allows students & professionals to discover the "Future of X."

## The Sutardja Center, where entrepreneurship and technology collide.

"SCET has created a base of Berkeley entrepreneurship ecosystem including the likes of SkyDeck, the Fung Institute and Global Venture Labs thereby, creating an extensive ecosystem of Silicon Valley and Global Partners. To thrive in this innovative ecosystem, the Sutardja Centre also collaborates with Jacob's Institute for design, the Haas Business School and the CITRIS Foundry."



## Berkeley Method of Entrepreneurship Fundamentals

Designed for aspiring technical leaders and innovators, the program introduces participants to the concepts of technology innovation and entrepreneurship.

The program is designed, developed and will be jointly delivered by UC Berkeley's Sutardja Center for Entrepreneurship & Technology (SCET) using the frameworks of the **Berkeley Method of Entrepreneurship (BMoE)** and **Berkeley method of Innovation (BMol)**.

The globally recognized BMoE and BMol emphasizes the mindset, behaviour and skills required to become an Intellectual Property Creator and a successful innovator.

# How will the Berkeley experience help you kickstart your professional journey

## UC Berkeley's BMoE and BMoI

Berkeley Method of Entrepreneurship and Innovation is to help hone your leadership and entrepreneurship skills and to also help create an innovative mindset to create new product offerings and generate Intellectual Property.

## Emerging Technology

Training on the most productive emerging technologies to help create your product or offering to be the best of the world

## Mindfulness

From The Art of Living Foundation to help maintain the balance between work, personal life and staying motivated.

## Ecosystem

A self-sustainable model supported by mentorship by global leaders and VC Funding opportunities.

## Employment

The program will also help you with the necessary skills required to hone and succeed in a tech management role in an organization.

Certifications in emerging technologies from prestigious globally renowned universities help students find positions in globally leading organizations and/or develop superior products or services.



# Opportunity to Study at SCET, UC Berkeley



## STARTUP SEMESTER PROGRAM, SCET AT UC BERKELEY

The Start-up semester emphasizes hands-on venture-building. Using the Berkeley Method of Entrepreneurship, will help you grow your network, find your new team, and immerse yourself in the dynamic Berkeley and Silicon Valley ecosystem.



## BERKELEY METHOD OF ENTREPRENEURSHIP BOOTCAMP

The Bootcamp facilitates immersive learning for new venture creation. This workshop offers a one-of-a-kind experience in one of the premier institutions in Silicon Valley. During the program, participants will attend sessions that weave together lectures and interactive game-based exercises, receive one-on-one mentoring from Sutardja Center faculty and industry experts; and learn in a collaborative environment.



## VISITING RESEARCHER PROGRAM

Entrepreneurial focused researchers and research teams may come to UC Berkeley to conduct applied research aligned with SCET X-Lab focus areas: Data Science, Sustainable Foods, and Blockchain. The Center also considers applicants interested in entrepreneurship education.

# How has Emerging Tech strengthened the Start-Up Ecosystem in India?

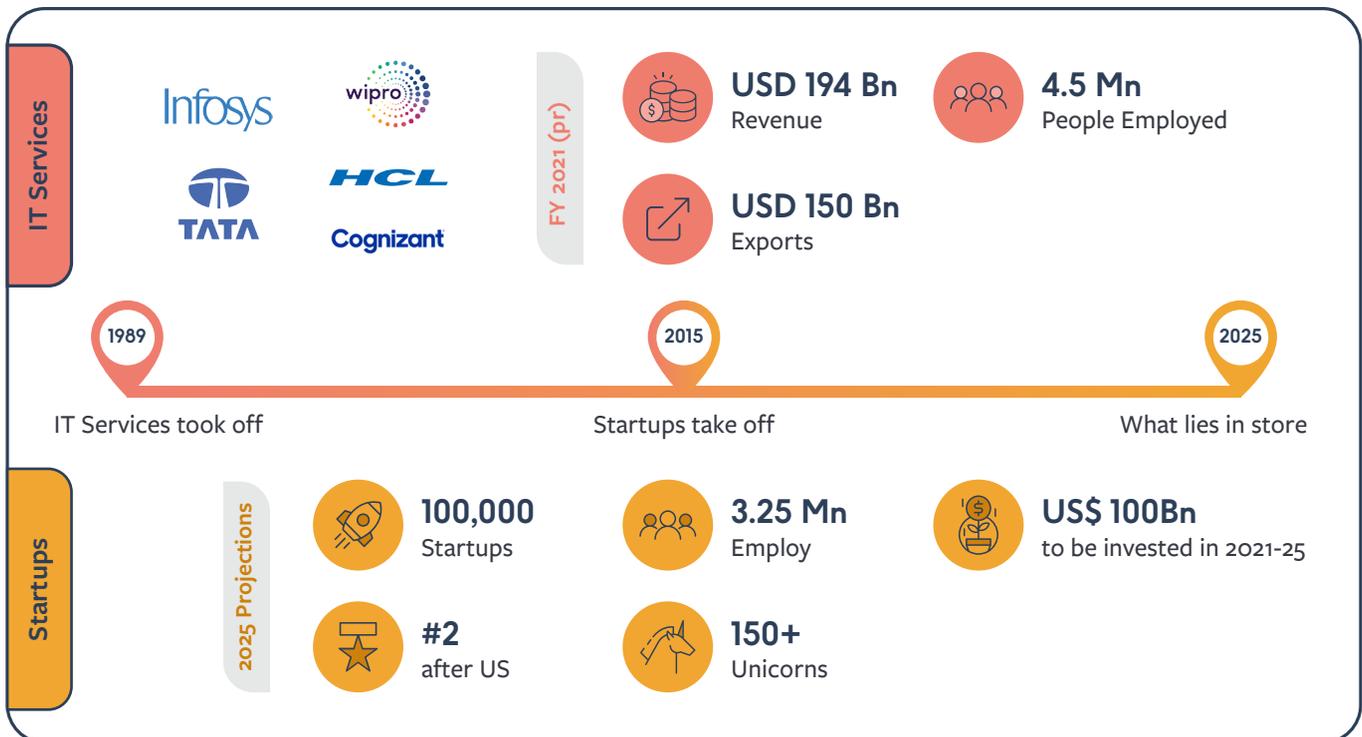
- 1 India's Start-Up Ecosystem
- 2 VC Funding
- 3 Rise of Unicorns
- 4 Digital Shift powered by Emerging Tech
- 5 Does early adoption of emerging technologies reap rich benefits?
- 6 How Emerging Tech is shaping up the Industry in 2021?
- 7 Program Details



# India's Start-Up Ecosystem

## New flywheel ramping up

The startups can potentially outrun the collective growth demonstrated by the big 5 technology organizations in India in the next decade.



Source: IBEF, Nasscom, 256 Network Report | TV Mohandas Pai @ 3one4 Capital

“With India pushing towards a knowledge-based digital economy, the government is attempting to deploy ICT infrastructure and enhance policies for e-governance, investments and technology innovation through research and higher education to support entrepreneurship and spur economic growth. With the growing demand for digital services in the post-COVID-19 era, startups in FinTech, EdTech, artificial intelligence, the Internet of Things and cyber security will see increasing user demand and attract more investment.”

Source: eastasiaforum



**Artificial Intelligence (AI) has enormous potential to generate development and bring in further equity and delivery in India.**



**Shri Ravi Shankar Prasad**

Hon. former - Union Communication and IT Minister

# VC Funding



Indian Startups raised more Venture Capital (VC) funding in the first half of 2021 than they raised in the whole year of 2020



According to data from Venture Intelligence, \$12.1 billion of VC investments flowed into Indian startups so far in 2021, compared to \$11.1 billion in all of 2020

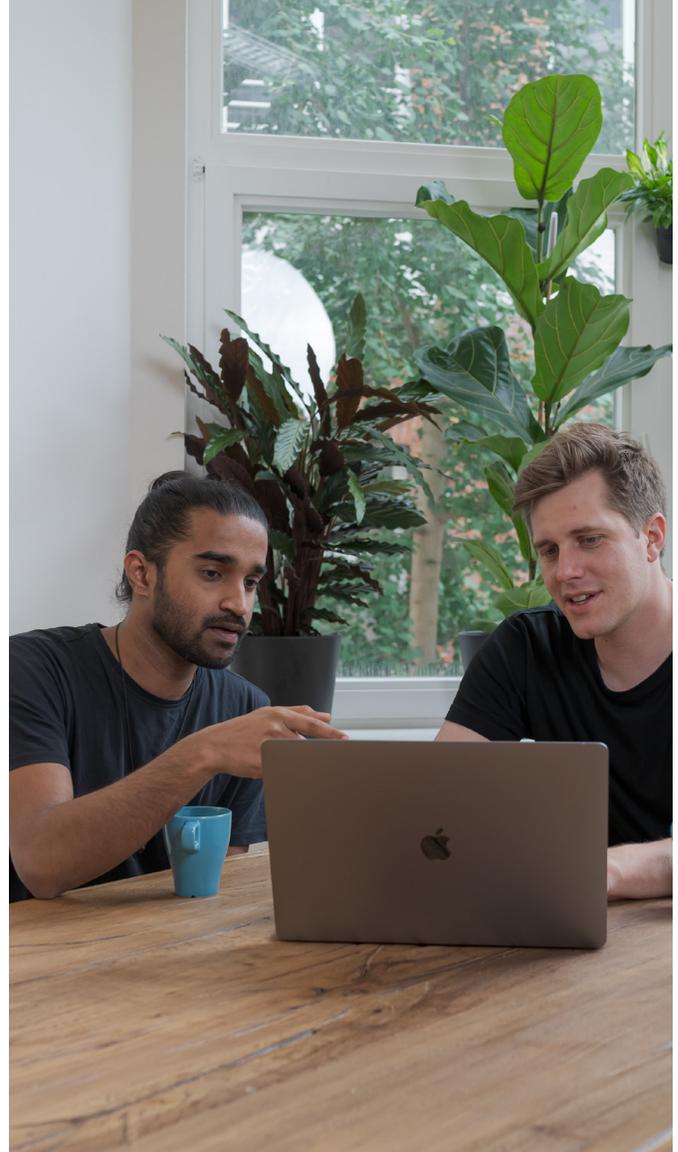


Indian startup funding is expected to touch record levels in 2021, with startups likely to raise anywhere between \$12 billion and \$17 billion funding by the end of 2021

Source: YourStory Research



India witnessed the rise of 44 unicorns so far in 2021 compared to 12 unicorns minted in 2020.



# Rise of Unicorns

**3<sup>rd</sup>**

largest startup ecosystem in the World

**44**

Unicorns created in 2021

**55,000**

Startups

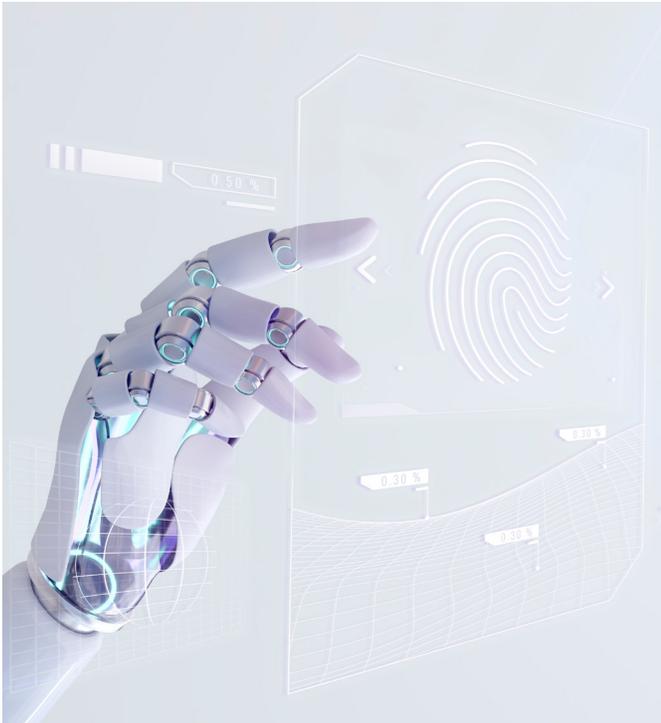
USD  
**315Bn**

Value Created

# Valuable Startups of India

Edu Tech	<p><b>BYJU</b></p> <p><b>\$2.9 B</b> Investment   <b>\$16.5 B</b> Valuation</p> <p><b>Problem Solved</b> E-learning platform from students of primary to senior secondary and also for UG PG courses</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Virtual Reality, Augmented Reality &amp; Mixed Reality</li> </ul>	<p><b>UNACADEMY</b></p> <p><b>\$440 M</b> Investment   <b>\$3.44 B</b> Valuation</p> <p><b>Problem Solved</b> Provides learning materials and video lectures for all major entrance exams in India</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Blockchain</li> <li>Internet of things</li> </ul>	<p><b>UPGRAD</b></p> <p><b>\$185 M</b> Investment   <b>\$1.2 B</b> Valuation</p> <p><b>Problem Solved</b> Affiliations with a few of the top universities which helps students learn career-enhancing skills &amp; help students to get online degrees from the top universities in the world</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Cloud Computing</li> <li>Gamification</li> </ul>
	<p><b>BHARATPE</b></p> <p><b>\$580 M</b> Investment   <b>\$2.85 B</b> Valuation</p> <p><b>Problem Solved</b> Process payments via UPI and POS , and provide credit \loans to merchants</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>AI &amp; ML</li> <li>Big Data and Data Analytics</li> </ul>	<p><b>CRED</b></p> <p><b>\$471.2 M</b> Investment   <b>\$2.2 B</b> Valuation</p> <p><b>Problem Solved</b> Manages bill payment for members and provides rewards to users for timely payment of credit card bills</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Robotic Process Automation (RPA)</li> <li>Blockchain</li> </ul>	<p><b>PHONEPE</b></p> <p><b>\$1.7 B</b> Investment   <b>\$5.5 B</b> Valuation</p> <p><b>Problem Solved</b> Mobile payments app that offers instant transfer of money to anyone using only their phone number</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Internet of Things</li> </ul>
	<p><b>MEESHO</b></p> <p><b>\$1.1 B</b> Investment   <b>\$4.9 B</b> Valuation</p> <p><b>Problem Solved</b> Enables small businesses and individuals to start their online stores making it one of the largest e-commerce platforms for women's clothing and accessories.</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>AI</li> <li>Big Data and Data Analytics</li> </ul>	<p><b>LENSKART</b></p> <p><b>\$774 M</b> Investment   <b>\$2.5 B</b> Valuation</p> <p><b>Problem Solved</b> India's fastest growing eyewear business aiding over 15 million visually impaired people with quality eyewear and free eye check-ups.</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Automated Robotics based manufacturing</li> </ul>	<p><b>PHARMEASY</b></p> <p><b>\$651.5 M</b> Investment   <b>\$3 B</b> Valuation</p> <p><b>Problem Solved</b> Online pharmacy that provides authenticated prescription and Over The Counter (OTC) medicine, manages Electronic Prescribing of Controlled Substances and (EPCS) &amp; facilitates Prescription Drug Monitoring Programs (PDMPs).</p> <p><b>Technology Used</b></p> <ul style="list-style-type: none"> <li>Virtual AR</li> <li>3D Face Modeling</li> </ul>
Fin Tech			
E-commerce			

# Digital Shift powered by Emerging Tech



Some people call this artificial intelligence, but the reality is this technology will enhance us. So, instead of artificial intelligence, I think we'll augment our intelligence.



**Ginni Rometty**

CEO & President, IBM

## How Industry is responding

**54%**

Of the Employees will require Upskilling due to Automation & AI, by 2022 by World Economic Forum

(Source: businessinsider)

**\$700**

Million

Investment pledged by Amazon for upskilling the employees

(Source: u2b)

**\$5**

Billion

KPMG expects to spend US \$5 billion over the next five years to enhance its leadership position in the digital transformation of professional services

(Source: KPMG)

**1.1**

Million

Freshers to be hired by TCS, Infosys, Wipro and HCL Tech in 2021

(Source: moneycontrol)

**75%**

Of the biggest accounting firms are investing \$9 Billion in artificial intelligence, data analytics products.

(Source: bloombergtax)

**\$3**

Billion

Commitment to upskill all 275,000 of its employees was announced by PwC, in sept 2019

(Source: businessinsider)

## What HR & Learning Leaders are Saying

Skilling is the only way out of this pandemic and organizations need to follow certain key trends to succeed, according to Mercer's 2020 Global Talent Trends Study.

78%

Of the employees are ready to upskill. The question is not who can adapt, but how best to develop an adaptable workforce.

(Source: moneycontrol)

64%

Of the corporate respondents are planning to focus on learning new skills.

(Source: LinkedIn's Workforce Confidence Index survey in April 2020)

14%

Around 375 million workers will have to switch jobs or acquire new skills by 2030 because of automation and AI

By Mckinsey Global Institute, 2017

## Potential Opportunities: Your's could be the next Unicorn

\$14-33  
Trillion

Bank of America estimates AI will drive tremendous annual economic growth by 2025

(Source: virtualespeech.com)



### Sustainable Agricultural Future

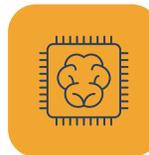
From breeding to crop management and planning, AI is making agriculture more sustainable with better yields.

(Source: indiaai.gov.in)

85%

Of Customer service interactions will be AI-powered. Whereas, 20% of business & training content will be written by AI in 2025

By Gartner Report



### ML Models

Prioritizing healthcare based on risk and mortality prediction Based on researchers from the International Institute of Information Technology Hyderabad.

(Source: indiaai.gov.in)

## Companies become Global Leaders by early adoption of Emerging Tech

### Do you know about the Google Brain Project?

Google first explored the possibilities of deep learning back in 2011, with the Google Brain project. The next year, the company announced that it had managed to build a neural network that could simulate human cognitive processes. Running on an incredible 16,000 computers, the system studied 10 million images and learned how to identify a cat in a photo. It may not sound that exciting, but it was a big leap in deep learning. Today, Google offers a bouquet of products using AI, ML including Waymo, Google's self-driving car division, Google Adwords, Doubleclick, Google Home etc.

(Source: bernardmarr.com)



**Artificial intelligence will be the ultimate version of Google. The ultimate search engine that would understand everything on the web. It would understand exactly what you wanted, and it would give you the right thing.**



**Larry Page**

Co-founder and CEO, Alphabet Inc. 'Google'

# Does early adoption of emerging technologies reap rich benefits?

Emerging technologies offer an opportunity even in situations leading to dramatic changes in the domestic and global economies. Tough economic and business conditions from March'19 onwards has demonstrated the advantage of adopting technologies which has resulted in significant growth and increase in market capitalization across industries.

## The early-tech movers dominate the market



Source: theprint.in

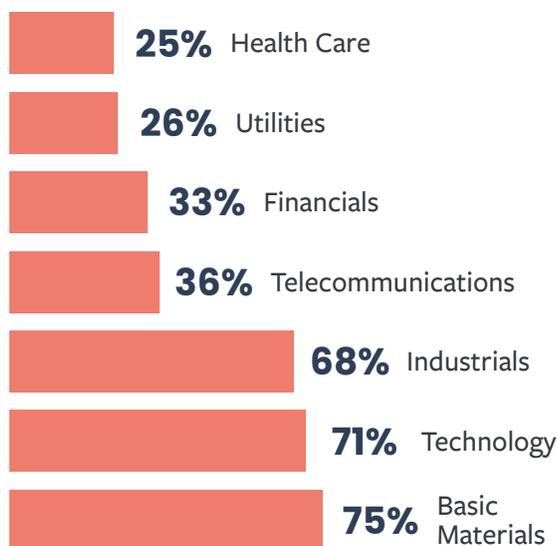
**iDEX: Innovation for Defence Excellence** is a startup support program initiated in India by Ministry of Defence to facilitate domestic development of military software and hardware. The Scheme with budgetary support of Rs 498.8 crore for iDEX aims to support 300 startups and 20 partner incubators over next five years to produce functional prototypes and foster innovation in Defence.

The Union Defence Ministry has decided to earmark around 64 per cent of its modernisation funds under the capital acquisition budget for 2021-22 — a sum of over Rs 70,000 crore — for purchases from the domestic sector.

Source: theprint.in

# Change in market capitalisation of current Global Top 100

(March 2020 - March 2021)



Looking beyond the dislocation caused by the initial outbreak of COVID-19, the market capitalization of the Global Top 100 companies has increased by a remarkable 51% between March 2019 and March 2021, compared to an increase in the MSCI World Index of 33%. Led by the US, this highlights the ability of the largest companies to leverage technology and grow at scale over this period, breaking away from the growth trend line over the past decade.

**Ross Hunter**

IPO Centre Leader, Partner, PwC United Kingdom



**Without a robust and resilient innovation strategy, no company can survive.**



**Phil McKinney**

CEO of CableLabs

Industries utilizing technologies have registered a strong recovery despite the economic crash caused by the pandemic; not just recovering rather thriving and growing like never before - all powered by technology.

Technologies are here to stay, up-gradable as per new problems identified that need to be solved.

- The global artificial intelligence market is valued at USD 22.59 Billion in 2018 and expected to reach USD 357.26 Billion by 2025.

Source: brandessenceresearch.com

- The global blockchain market size is expected to grow from USD 3.0 billion in 2020 to USD 39.7 billion by 2025, at a CAGR of 67.3% during 2020–2025.

Source: www.marketsandmarkets.com

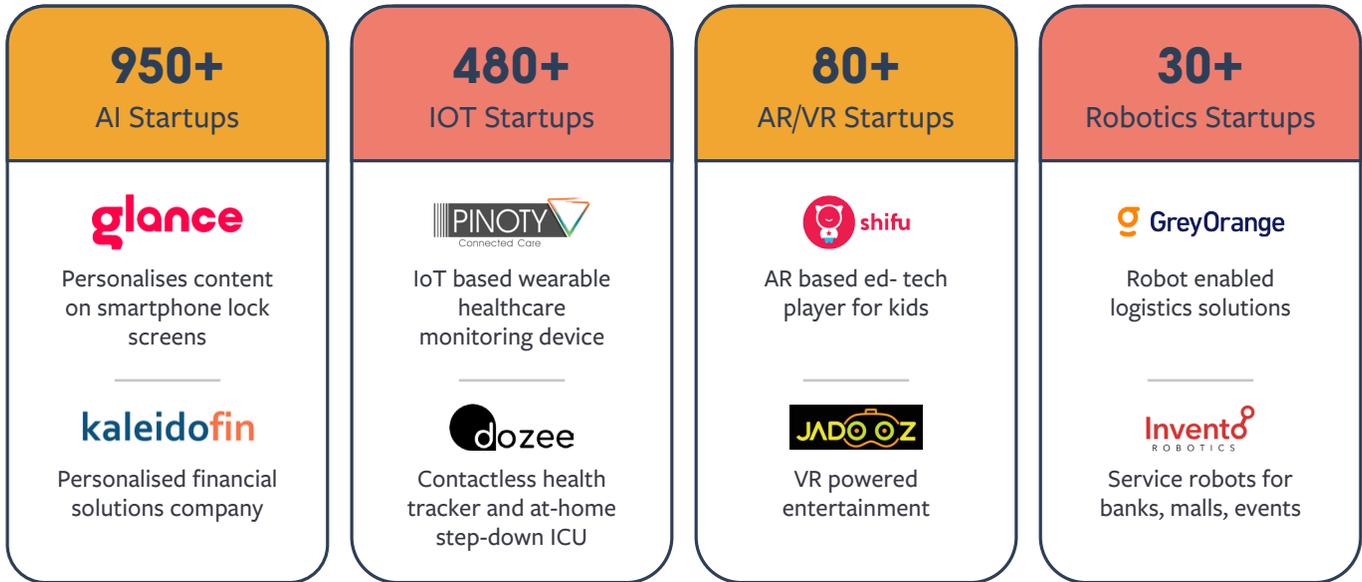
- Talent consulting firm Han Digital estimates that by 2025, demand for data science related jobs will be three times that of the current market trend.

Source: www.livemint.com

Emerging technologies offer long term opportunities to all the industries and now is the time to capitalize on the benefits.

# How emerging technology is shaping up industry in 2021?

## India growing as a deep-tech hub



(Source: 256 Network Family Office Report)

## Blockchain

60%

Of Aadhaar-based transactions and extensive uses of technology for the delivery of government services has been accounted for in Land Record and Transport department in Andhra Pradesh

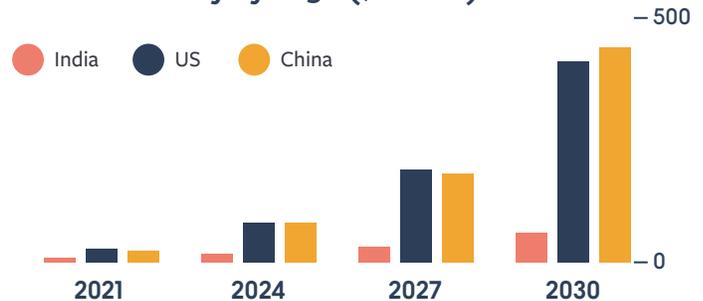
(Source: Chief Minister N. Chandrababu Naidu & State Information Technology Minister Nara Lokesh, Andhra Pradesh)

\$1.76 trillion

Estimated contribution of Blockchain to global GDP by 2030.

(Source: PwC's Time for Trust)

## Projected contribution of blockchain to the Indian economy by 2030 (\$ billion)



\* the net additional value by blockchain tech in terms of GDP

(Source: PwC's Time for Trust)

## Blockchain's impact by application in India in 2030 (\$ billion)



(Source: PwC's Time for Trust)

## Cryptography



SSL & TLS  
Encryption



Digital  
Signatures



Safe Online  
Banking



Secure Chatting  
Services



Encrypted  
Emails



Crypto-currency



**We want India to become the global hub for Artificial Intelligence. National program on AI will be used to solve the problems of the Society.**



**Shri Narendra Modi**

Honourable Prime Minister of India

## Application of AI in India

### Economy

**US \$1 Billion**

The emergence of 'Made in India' observed US\$1 billion in funding, allocated to semiconductor companies using AI.

(Source: [www.analyticsinsight.net](http://www.analyticsinsight.net))

### Healthcare

**Co+-WIN**  
Winning Over Covid-19

An augmentation of eVIN is a cloud-based solution for arranging, monitoring, and assessment of the COVID-19 vaccine in India. The use of AI in the Indian Healthcare system is growing a lot faster with the pandemic in the background.

### Education

 **NITI Aayog**

The Atal Mission Innovation to help young entrepreneurs with the adaptation of AI technology.

# Program Details



## Program Curriculum



Berkeley Method of Entrepreneurship



Technical Electives from the Emerging Technologies



Mindfulness

## Program Delivery Methodology



Online / Hybrid



Capstone Project



Guest Speakers



Mentorship with Global Industry Leaders working closely with students



Joint program delivery by SCET, UCB Faculty - Recorded and live via video conf.



Assignments

## Eligibility Criteria

Science, Engineering Students and graduates, management students and graduates, working professionals or any other participant with introductory knowledge and understanding of the technology elective they want to pursue.

## How To Enrol

Please connect with our admission counsellors at

[inquiry@iiedutech.com](mailto:inquiry@iiedutech.com)

+91 7725076867 / +91 7804811082

[www.iiedutech.com](http://www.iiedutech.com)



# Disclaimer

We have ensured that the information in the brochure is true and complete to the best of our knowledge and the same has been duly acknowledged. We reserve the right to change the content of this brochure. The brochure may be used for information purpose only.



**Exclusive National Strategic Education and Training Partner**

[info@iiedutech.com](mailto:info@iiedutech.com)  
[www.iiedutech.com](http://www.iiedutech.com)

---

For admission enquiries please refer to the delivery centre details

Follow us on



**Berkeley** Sutardja Center for  
Entrepreneurship & Technology  
COLLEGE OF ENGINEERING





Indore Exclusive Partner of



National Exclusive Partner

IPS Academy

For admission and enquiries please contact

[sumeruinnovationx@ipsacademy.org](mailto:sumeruinnovationx@ipsacademy.org) | +91 90091 56161

[www.ipsacademy.org](http://www.ipsacademy.org)

Follow us on



Management Ranking amongst  
top 100 institutes of India

For 5 consecutive years  
2017,2018,2019, 2020,2021

A UGC AUTONOMOUS ENGINEERING  
INSTITUTE

First self - financing Institute in MP

NBA ACCREDITED Engineering UG Programs

NACC ACCREDITED ACADEMY

Providing  
**76 Courses**  
to select from

Spread over  
**58 Acre**  
campus area

Latest  
**Technologies**  
to learn from (online & offline)