Demand for Expertise in Disruptive Technologies among Technology Professionals
“A Transformational Program”

AS TOLD TO

India’s Top Faculty

Most-preferred Learning Format

Rewarding Outcomes

Outstanding Ratings

Exceptional Peer Group

“Great opportunity to learn from India’s Best Professors.”
~ Rambabu Bonkuri, Lead Developer, Paymatrix

“Peer Networking, Hackathons & Labs provided hands-on perspective. Exceeded my expectations.”
~ Venu Chigullapalli MD, India Operations, BostonLogix

“Concise Program, good exposure to research as well as industry trends and practices.”
~ Meenakshi Singh, Software Developer, Hitachi Consulting

“The overall structure did not overwhelm, considering some of us haven’t been coding hands-on for a while.”
~ Saritha Kasturi, Sr. Technical Manager, Netcracker

“The best thing that’s happened to me in the last few decades.”
~ Yunis Ahmad, Senior Director, Netenrich Technologies

“A clear understanding of the concepts and how to connect it with real world scenarios.”
~ Laxman, Director, Qualcomm

“This Program gave me a scope to get into ML team in my office.”
~ Sravya Yellapragada Development Engineer, Pramati Technologies

“Pretty comprehensive & effective Program bringing participants up to speed in just 14 weeks.”
~ Dinesh Koka, Founder, Onward Health

~ Krishna Chilamkurthy, Program Manager, Microsoft

~ Sravya Yellapragada Development Engineer, Pramati Technologies

~ Dinesh Koka, Founder, Onward Health

~ Saritha Kasturi, Sr. Technical Manager, Netcracker

~ Laxman, Director, Qualcomm

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Executive Summary

Artificial Intelligence, Machine Learning, and Deep Learning (AI/ML) are disrupting the Software and Services Industry. Whether we realise it or not, a majority of us are already using AI/ML in our everyday life as consumers. Almost every leading organisation or fast-growth startup is adopting AI/ML technologies. However, deep expertise and world-class talent in AI/ML is extremely hard to find. The gap is even more pronounced in India, where historically, the Service Industry has focused on cost arbitrage rather than cutting-edge innovation.

IIIT-Hyderabad Machine Learning Lab, based on its deep research expertise, launched the Foundations of Artificial Intelligence and Machine Learning Program in association with TalentSprint in Jan 2018. Special Scholarships were announced to encourage Women, Young Professionals, and Startups to participate in the Program. Two concurrent cohorts of working professionals graduated in May 2018. New cohort at Bengaluru is scheduled to start in July 2018 and at Hyderabad in June 2018, bringing the total number of participants to 800+.

This Focus Report summarises the trends in Bengaluru and Hyderabad for deep expertise in the latest AI/ML technologies. The survey insights are based on the participants’ profile and interest in AI/ML. The data has been anonymized to ensure privacy.

**INSIGHT - 1**
There is a significant number of enrollments by professionals with over 10 years experience (49% enrollments) and with 5-10 years experience (22% enrollments). This indicates a rising urgency among experienced professionals to equip themselves with expertise in emerging disruptive technologies.

**INSIGHT - 2**
Maximum enrollments have come from the IT companies (55% enrollments). Finance, Telecom, Education, and other industries contributed the remaining enrollments. This may indicate that the IT Industry is most disrupted by the AI/ML wave.

**INSIGHT - 3**
Enrollments from Large Companies (51% enrollments) are only growing by the day. This may indicate that there is a lot of competition among professionals in larger companies to sustain their career. Large Companies want to capitalize and make the best of these emerging technologies by having their employees trained in AI/ML.

**INSIGHT - 4**
Experienced male professionals are more eager to master disruptive technologies relative to women and young professionals. This may indicate that these segments need more sensitization and incentivisation on disruptive technologies.
**Gender**

- Male: 82%
- Female: 18%

**Experience**

- **Men**
  - Less than 1 Year: 3%
  - 1 - 3 Years: 15%
  - 3 - 5 Years: 11%
  - 5 - 10 Years: 22%
  - More than 10 Years: 49%

- **Women**
  - Less than 1 Year: 5%
  - 1 - 3 Years: 25%
  - 3 - 5 Years: 11%
  - 5 - 10 Years: 10%
  - More than 10 Years: 17%

**Insights**

- Experienced male professionals more eager relative to women and young professionals
- Highest number of enrollments by professionals with over 10 years of experience
**Education**

- BE/B.Tech: 58%
- B.Pharma: 0.14%
- BSc: 2%
- BCA/MCA: 6%
- ME/M.Tech.: 18%
- MCA: 8%
- MBA: 7%
- Ph.D.: 0.71%

**Age**

- Below 25: 14%
- 26-30: 21%
- 31-35: 27%
- 36-40: 21%
- Over 40: 17%

**INSIGHTS**

- Highest number of enrollments by professionals with B.E and B.Tech education (58% enrollments)
- Professionals in the age band of 26-40 most keen to learn the AI/ML technologies
Professionals working in Large Companies (51% enrollments) are more keen to learn these disruptive technologies.

Significant number of enrollments by professionals in IT companies.
Professionals from leading companies and various industries want to make the best of AI/ML.

Maximum enrollments by professionals working as Developers in various organisations.

**Companies from where Professionals have enrolled for this Program**

- **Leadership**
  - Senior Software Engineer
  - Software Engineer
  - Software Architect
  - Principal Software Engineer
  - Full Stack Developer
  - Engineer
  - Developer
  - System Engineer
  - Software Developer
  - Senior Associate
  - Assistant Software Engineer
  - Application Developer
  - Lead Software Engineer
  - Software Development Engineer
  - Vice President
  - Team Lead
  - Technical Lead
  - Director
  - Project Lead
  - CTO
  - Associate Director
  - Director of Engineering
  - AVP
  - Software Engineer: Associate Lead
  - Test Lead
  - Solution Lead
  - Technical Director
  - Senior Technical Leader

- **Manager**
  - Senior Analyst
  - Consultant
  - Senior Consultant
  - Business Analyst
  - Architect
  - Analyst
  - Technical Architect
  - Senior System Analyst
  - Programmer Analyst
  - Lead Analyst
  - Assistant Consultant
  - Associate Technical Consultant
  - Senior R&D Analyst
  - Senior QA Analyst

- **Developer**
  - Senior Manager
  - Associate Manager
  - Project Manager
  - Program Manager
  - Product Manager
  - Engineering Manager
  - Assistant Manager
  - Software Engineering Manager
  - Technology Manager
  - Technical program manager
  - Software Project Manager

- **Analyst**
  - Manager
  - Senior Manager
  - Associate Manager
  - Project Manager
  - Program Manager
  - Product Manager
  - Engineering Manager
  - Assistant Manager
  - Software Engineering Manager
  - Technology Manager
  - Technical program manager
  - Software Project Manager

- **Insights**
  - Over 250 Companies from where Professionals have enrolled for this Program.
## Organisations where Participants are Employed

- Accenture
- Adobe
- ADP
- Amazon
- AMD
- Qualcomm
- CGI
- AT&T
- Bank of America
- Bayer
- Bosch
- DBS
- CA Technologies
- Capgemini
- Citrix
- Cognizant
- Cyient
- Dell
- ECIL
- DXC Technology
- HCL
- Deloitte
- IBM
- Elsevier
- Ericsson
- GE
- Genesys
- Genpact
- HP
- Genuitec LLC
- Guardian
- Hitachi Consulting
- LTI
- LG
- Honeywell
- Housejoy
- HSBC
- Hyundai Mobis
- JP Morgan
- Intel
- Intuit
- Medtronic
- Microsemi
- Microsoft
- NetApp
- NCR
- Nokia
- Novartis
- NTT Data
- OLA Cabs
- TCS
- Oracle
- Paytm
- Pegasystems
- Polycom
- Tech Mahindra
- Schneider Electric
- Samsung
- SAP
- Siemens
- Uber
- United Health Group
- Verizon
- Virtusa
- Wipro
- Wells Fargo
- VMWARE
- Zensar Technologies
- More...
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HYDERABAD
MACHINE LEARNING LAB