



INTERNATIONAL INSTITUTE OF  
INFORMATION TECHNOLOGY

HYDERABAD

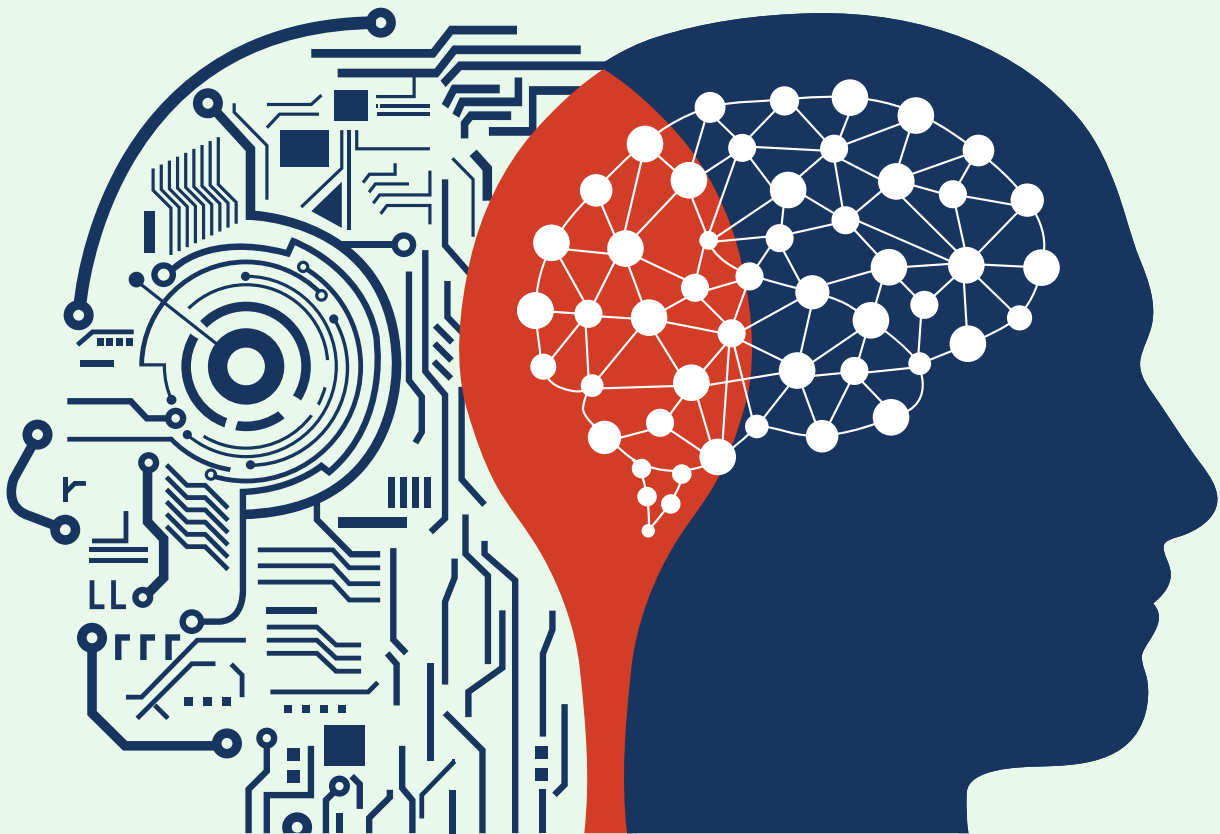
MACHINE LEARNING LAB

In Association With



Presents

# Demand for Expertise in Disruptive Technologies among Technology Professionals



# “A Transformational Program”

AS TOLD TO

YOURSTORY

India's Top  
Faculty

Most-preferred  
Learning Format

Rewarding  
Outcomes

Outstanding  
Ratings

Exceptional  
Peer Group



Faculty

“Great opportunity to learn from India's Best Professors.”

~ Rambabu Bonkuri, Lead Developer, Paymatrix

Peer Group

“It is about the collaboration and the networking that this Program brings to the table.”

~ Krishna Chilamkurthy, Program Manager, Microsoft



Ratings

“Peer Networking, Hackathons & Labs provided hands-on perspective. Exceeded my expectations.”

~ Venu Chigullapalli MD, India Operations, BostonLogix

MEDICI

Learning Format

“Concise Program, good exposure to research as well as industry trends and practices.”

~ Meenakshi Singh, Software Developer, Hitachi Consulting



Learning Format

“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

Outcomes

“The best thing that's happened to me in the last few decades.”

~ Yunis Ahmad, Senior Director, Netenrich Technologies



Outcomes

“A clear understanding of the concepts and how to connect it with real world scenarios.”

~ Laxman, Director, Qualcomm

Outcomes

“This Program gave me a scope to get into ML team in my office.”

~ Sravya Yellapragada Development Engineer, Pramati Technologies



Outcomes

“Pretty comprehensive & effective Program bringing participants up to speed in just 14 weeks.”

~ Dinesh Koka, Founder, Onward Health

# 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.

IIT-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.

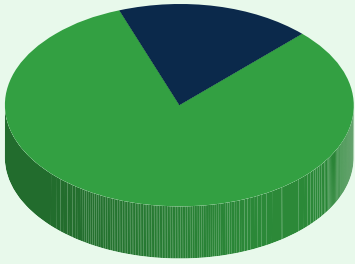
## INSIGHT - 3

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

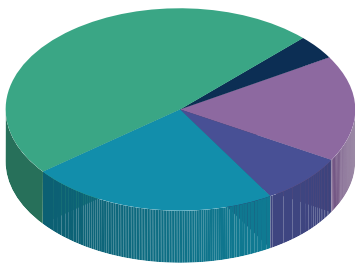
**82%**



Female

**18%**

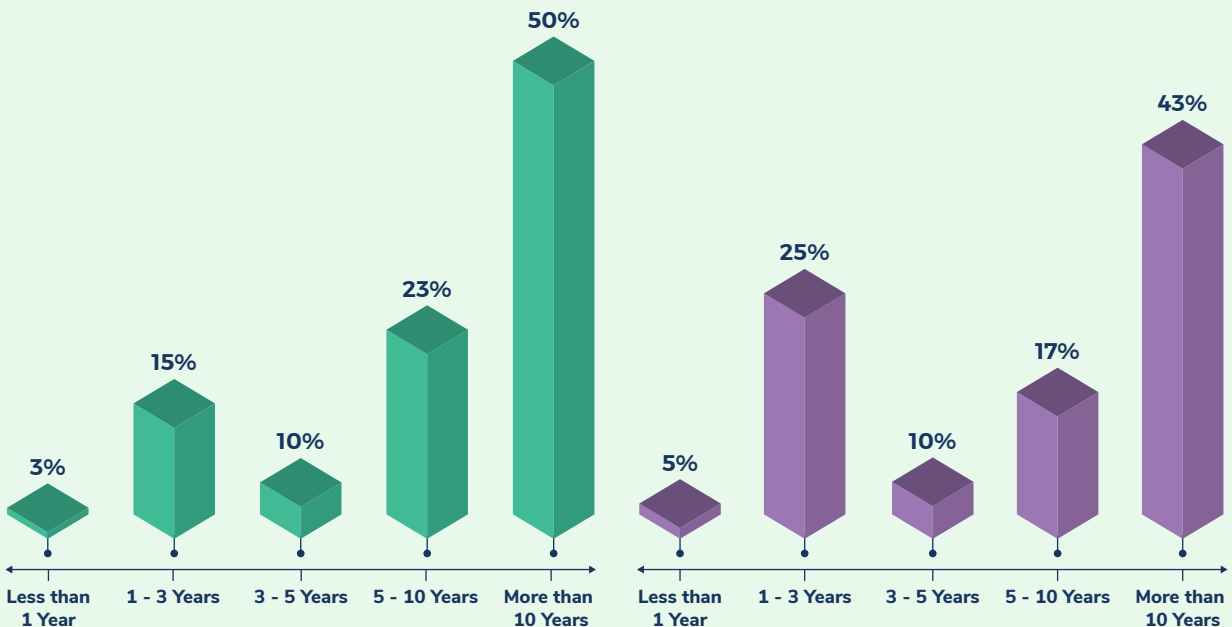
## Experience



● Less than 1 Year	3%
● 1 - 3 Years	15%
● 3 - 5 Years	11%
● 5 - 10 Years	22%
● More than 10 Years	49%

● Men

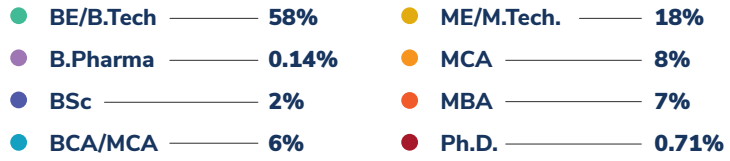
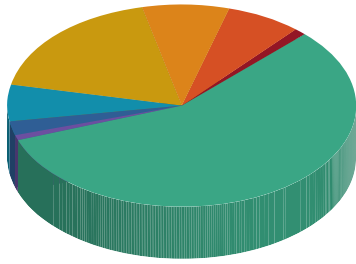
● Women



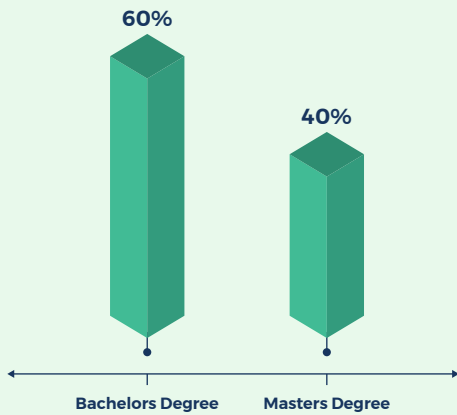
### INSIGHTS

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

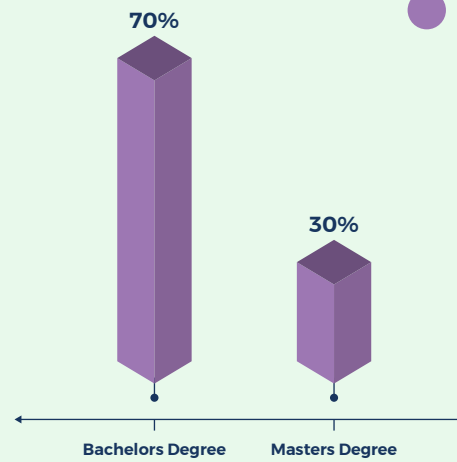
# Education



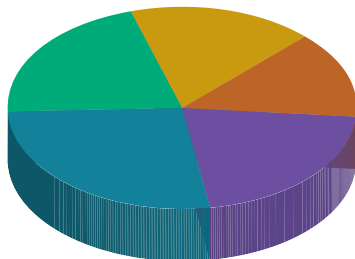
Men



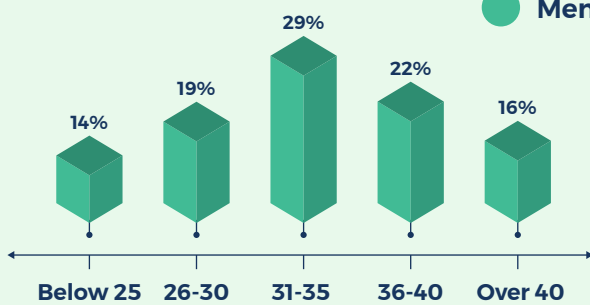
Women



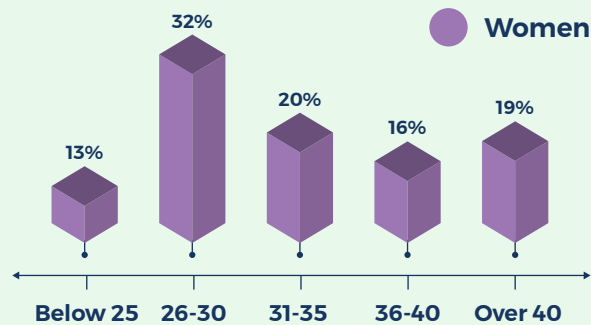
# Age



Men



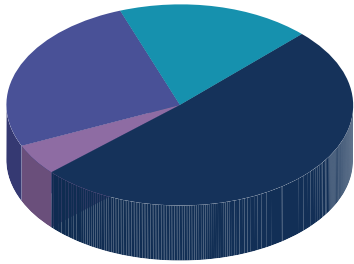
Women



## INSIGHTS

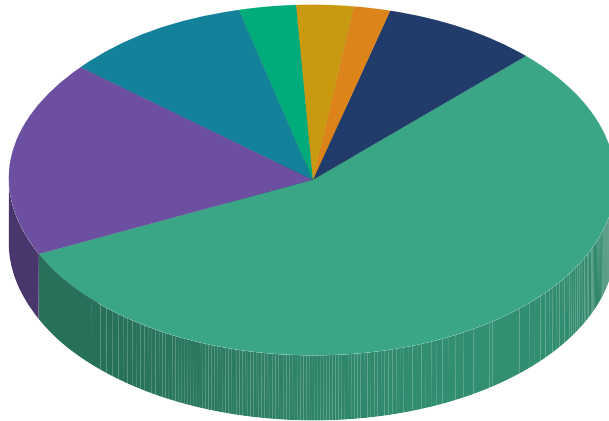
- ▶ Highest number of enrollments by professionals with B.E and B.Tech education (58% enrollments)
- ▶ Professionals in the age band of 26-40 most keen to learn the AI/ML technologies

## Company Size



● Large	50%
● Medium	6%
● Small	26%
● Startup	18%

## Industry



● IT	55%	● Telecom	3%
● BFSI	18%	● Services	3%
● Consulting	10%	● Manufacturing	2%

### OTHERS

● HealthCare	● Product	● Media
● Research	● Automobile	● Infrastructure
● Ecommerce	● Travel	● Automtive
● Education	● Retail	
● Service	● Real Estate	

### INSIGHTS

- ▶ Professionals working in Large Companies (51% enrollments) are more keen to learn these disruptive technologies
- ▶ Significant number of enrollments by professionals in IT companies



# 250+

Companies from where Professionals have enrolled for this Program

## LEADERSHIP

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

**18%**  
PARTICIPANTS

## MANAGER

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

**20%**  
PARTICIPANTS

## DEVELOPER

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

**36%**  
PARTICIPANTS

## ANALYST

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

**26%**  
PARTICIPANTS

## INSIGHTS

- ▶ 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

# 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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sprint 