

Demand for Expertise in Disruptive Technologies among Technology Professionals

AI/ML Focus Report for Hyderabad Region



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY

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OUTREACH DIVISION

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AI is the Next Industrial Revolution.

Wall Street Journal

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, recently launched the **Foundations of Artificial Intelligence and Machine Learning Program** in association with TalentSprint. Special Scholarships were announced to encourage Women, Young Professionals, and Startups to participate in the Program. Two concurrent batches with the total strength of 400 working professionals are set to launch on January 6, 2018.

This Focus Report summarises the trends in Hyderabad for deep expertise in the latest AI/ML technologies. The survey insights are based on the interest in AI/ML among working professionals. The data has been anonymized to ensure privacy.

INSIGHT - 1

There is a significant interest from professionals with over 10 years experience (33% applicants) and with 5-10 years experience (28% applicants). This indicates a rising urgency among experienced professionals to equip themselves with expertise in emerging disruptive technologies.

INSIGHT - 2

There is a significant interest from professionals in Services companies (73% applicants). Finance, Telecom, Education, and other industries contributed the remaining applicants. This may indicate that the Services Industry is most disrupted by the AI/ML wave.

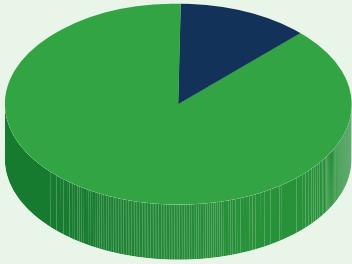
INSIGHT - 3

There is an active interest from professionals in Startups and Small Companies (44% applicants). This may indicate that the startup ecosystem is contributing to the rapid adoption of AI/ML technologies, disproportionately in relation to their employee strength.

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

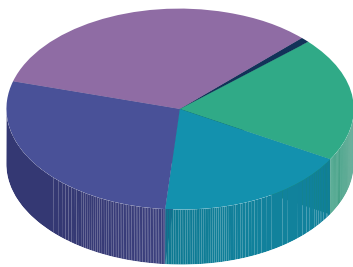
88%



Female

12%

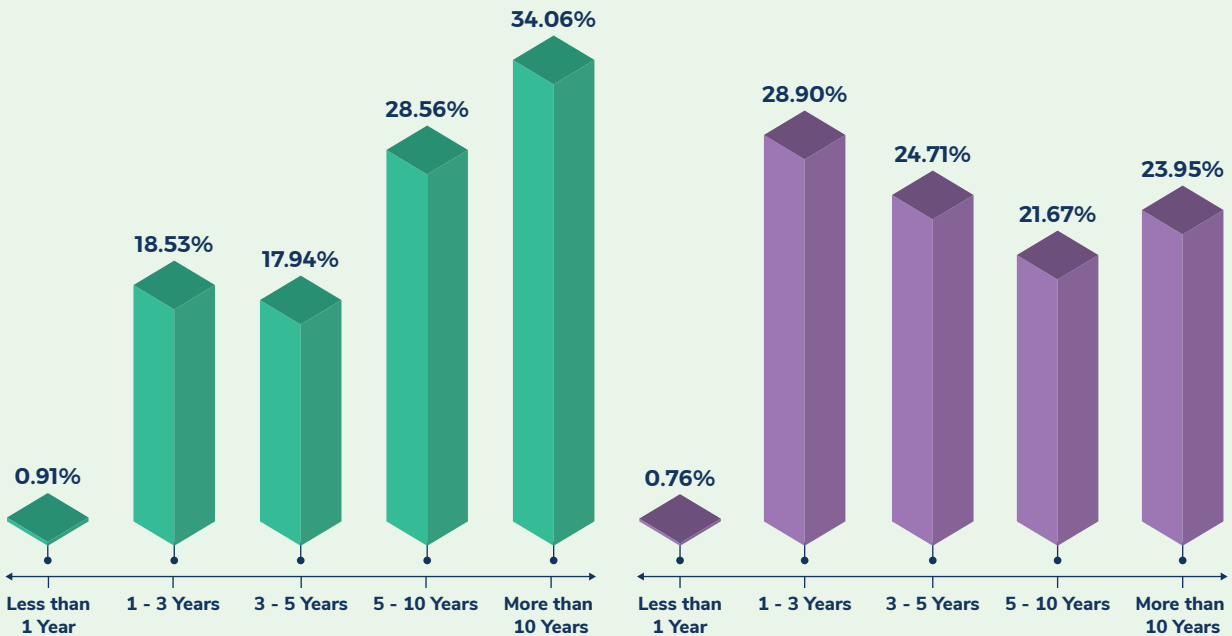
Experience



● Less than 1 Year	0.89%
● 1 - 3 Years	19.80%
● 3 - 5 Years	18.77%
● 5 - 10 Years	27.72%
● More than 10 Years	32.82%

● Men

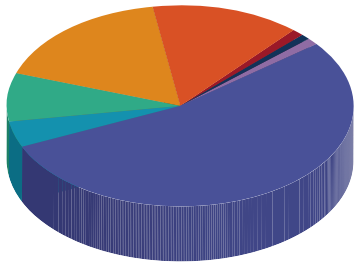
● Women



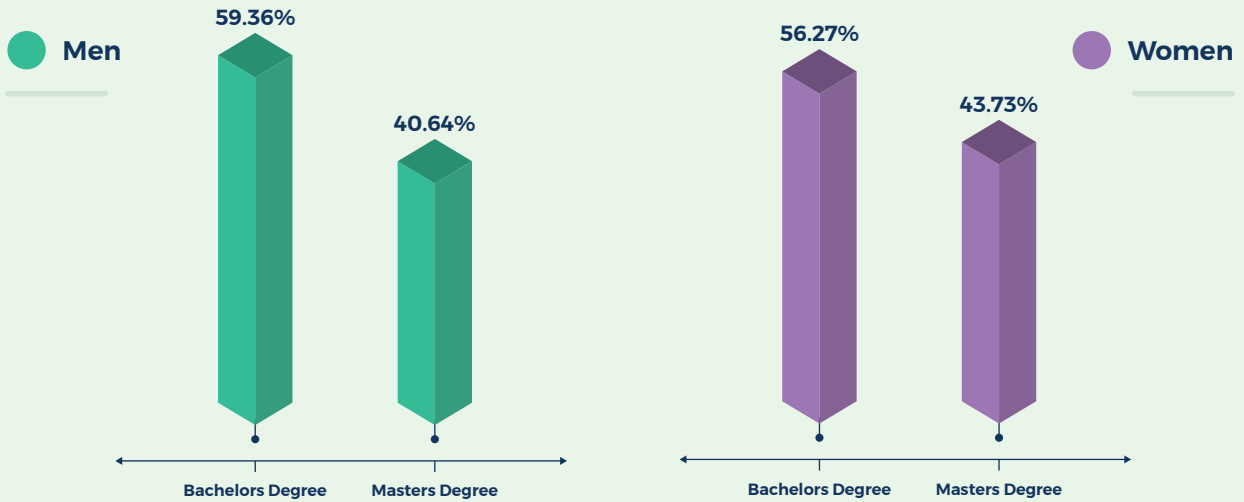
INSIGHTS

- ▶ Experienced male professionals more eager relative to women and young professionals
- ▶ Significant interest from professionals with over 5 years of experience

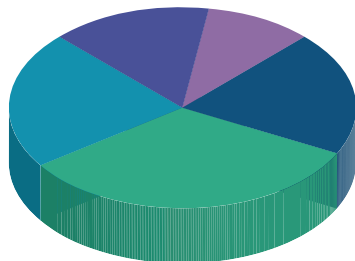
Education



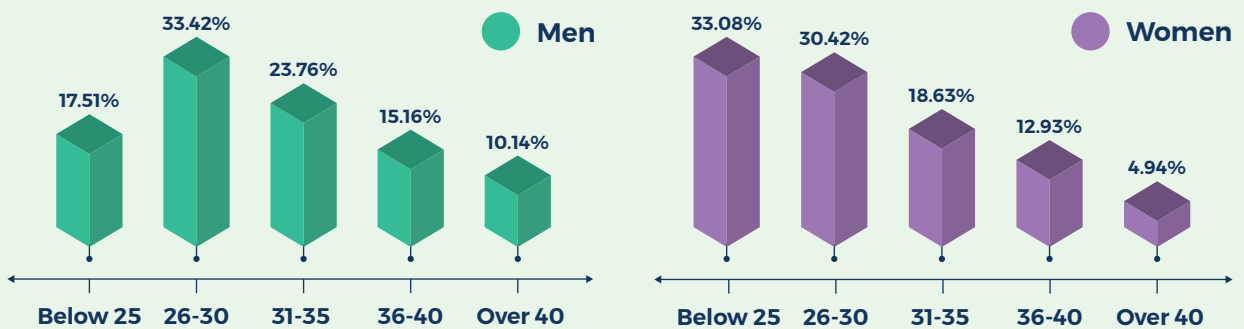
● B.Pharm	0.19%	● MBA	8.24%
● BCA	0.05%	● MCA	16.99%
● BE/B.Tech	54.78%	● ME/M.Tech.	14.75%
● B.Sc.	3.98%	● Ph.D.	1.03%



Age



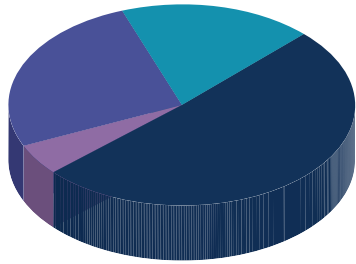
● Below 25	19.43%
● 26-30	33.05%
● 31-35	23.13%
● 36-40	14.89%
● Over 40	9.50%



INSIGHTS

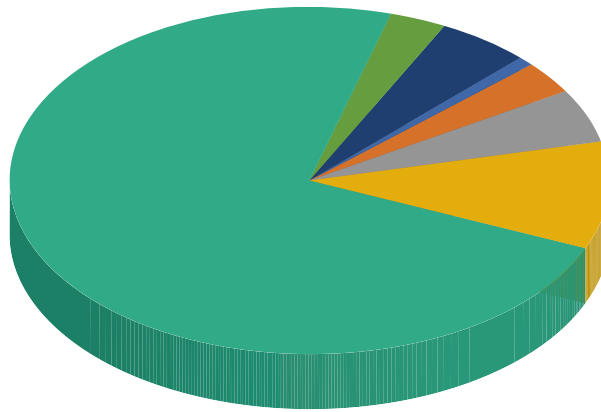
- ▶ High level of propensity (41% applicants) in professionals with Masters and Postgraduate education
- ▶ Professionals in the age band of 26-35 most keen to learn the AI/ML technologies

Company Size



● Large	50.09%
● Medium	5.99%
● Small	26.12%
● Startup	17.79%

Industry



● Services	73.22%	● Telecom	3.32%
● Products	9.83%	● Education	2.67%
● Finance	5.38%	● Ecommerce	1.03%

OTHERS

- | | | |
|---------------------|---------------------|------------|
| ● Aerospace | ● Gaming | ● Pharma |
| ● Automobile | ● Government | ● Research |
| ● Construction | ● HR | ● Retail |
| ● Datacenter | ● Hardware | ● Security |
| ● Defence | ● Healthcare | ● Staffing |
| ● Digital Marketing | ● IT Infrastructure | |
| ● FMCG | ● Insurance | |

INSIGHTS

- ▶ Active interest from professionals in Startups and Small Companies (44% applicants)
- ▶ Significant interest from professionals in Services companies



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Companies from where Professionals have enrolled for this Program

LEADERSHIP

Founder
CEO
CTO
Vice President
Assistant Vice President
Director
Director Engineering
Director Software Development
Technical Director
Managing Director
Software Development Director
Head of Technology
CoP Head
Quality Head

23%
APPLICANTS

MANAGER

Senior Manager
Senior Project Manager
Senior Product Manager
Senior Staff Manager
Senior Engineering Manager
Manager
Chief Manager
Deputy General Manager
Associate Manager
Program Manager
Technology Manager
Development Manager
Engineering Manager
Data Manager

25%
APPLICANTS

DEVELOPER

Senior Project Engineer
Senior Data Engineer
Senior Associate
Senior Software Developer
Senior Software Engineer
Senior Systems Engineer
Senior Application Developer
Lead iOS Developer
Developer
SAP Developer
Full Stack Web Developer
Associate Developer
Principal Software Engineer
Research Engineer

26%
APPLICANTS

ANALYST

Scientist
Senior Analyst
Senior Consultant
Senior Managing Consultant
Senior Principal Statistician
Senior Professional Application Delivery
Senior Software Analyst
Senior Support Consultant
Senior Technology Specialist
IT Senior Consultant
Business Analyst
Chief Consultant
Information Technology Analyst
Assistant Consultant

26%
APPLICANTS

INSIGHTS

- ▶ Professionals from leading companies and various industries want to make the best of AI/ML
- ▶ Almost equal interest among all levels & departments of organisations



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