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## Possibilities in Artificial Intelligence



### LEARNING OUTCOMES

At the end of the chapter, students will be able to:

- ▶ Outline the possibilities in AI
- ▶ Identify the career opportunities in AI
- ▶ Explain the job profiles in AI
- ▶ List the professional skills needed for jobs in AI
- ▶ Outline the requisite educational qualification
- ▶ List major AI companies
- ▶ Outline future prospects of AI

### CHAPTER NOTES

- ▶ Artificial intelligence (AI) stands out as a dynamic and fast-evolving tech realm.
- ▶ Artificial Intelligence (AI) has a wide range of applications across various fields, leading to diverse career opportunities.
- ▶ The various career opportunities in the field of AI are – Machine Learning, Engineer, Data Scientist, AI Research Scientist, Computer Vision Engineer, Natural Language Processing (NLP) Engineer, Robotics Engineer, AI Ethics and Bias Analyst, AI Product Manager, Healthcare AI Specialist, Finance AI Specialist, Agricultural AI Specialist, AI in Gaming Specialist and many more.
- ▶ Technical skills needed to pursue a career in AI in Proficiency in programming languages are – machine learning algorithms and deep learning models, skilled in data pre-processing, knowledge of popular AI frameworks, use of data science tools, knowledge of big data technologies, database management and subject like Mathematics and Statistics.
- ▶ Some of the soft skills needed are Problem-Solving, Critical Thinking, Communication, Creativity, Adaptability, Domain Knowledge.
- ▶ Some of the companies from around the world pioneering in the field of AI are – Google (Alphabet Inc.), Microsoft, Facebook (Meta Platforms, Inc.), IBM, Amazon, Apple, Tesla, NVIDIA, OpenAI, Alibaba, Samsung, Intel, Adobe.
- ▶ Some of the companies from India pioneering in the field of AI are Tata Consultancy Services (TCS), Infosys, Wipro, HCL Technologies, Accenture India, Niki.ai, SigTuple, InMobi, Suki.AI, Niramai, Manthan, NestAway, JioHaptik
- ▶ The prospects of AI are exceptionally promising, as it is expected to continue driving innovation and efficiency across various industries, leading to increased automation, better decision-making, and the potential for addressing complex global challenges.