



# Artificial Intelligence: Reshaping Life and Business by Dr. Prabhat Kumar, BPB Publication

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This book is based on the concepts of Artificial Intelligence and explains the same with lots of real-life examples and case studies. The author is an adjunct faculty at IIT Delhi, a practicing lawyer, and a corporate consultant.

Given below is the chapter-wise review.

**Chapter 1** throws light on evolution of AI since 1955 and how various governments, technocrats have accepted and promoted the AI technology in fields like robotics, military, chess game, baby sitter, and manufacturing sectors.

**Chapter 2** explains general and specific applications of AI in various application domains. All concepts have been explained at a broader level. Excellent examples of Computer vision with reference to machine vision have been given. Also, the present and future of driverless cars has been explained in detail, throwing light on impact of deploying these cars, on insurance companies. Amazing applications and challenges of AI drone, chatbot, NLP, IOT are cited.

**Chapter 3** talks about hardware revolution that led to the growth of AI and mainly includes GPUs for deep learning. Investments in AI has increased globally because of its high rate of growth. It focusses on mergers and acquisitions and a large number of patents being filed in the field of AI. Indian start-ups in AI has also increased many folds. The number of research and publication work has also risen globally.

**Chapter 4** is based on huge data being collected in social media space, e-commerce. 5G technology is the major fuel to contribute for faster movement of data on networks. This chapter also talks about privacy issues related to data collection and usage.

**Chapter 5** briefs about the interests of Big technology companies in AI as only AI can bring in higher revenues for them e.g. Google has produced GoogleBrain (TensorFlow), Google Assistant, and also entered in health care industry, smart city projects, smart maps and many more. Amazon has developed Alexa, AWS, autonomous driving solutions. This chapter also tells about various developments by Apple, Facebook, IBM, Nvidia, Microsoft, eBay, Alibaba, Baidu, Tencent in AI field.

**Chapter 6** tells about inception of a large number of start-ups in different AI industries e.g. Affirm, AlphaSense, Byte-dance, CrowdStrike, Darktrace, Flatiron, GrayOrange, InsideSales.com, Mobileye, ORCAM, SenseTime, UBTECH, Zoox, Zymergen. It focusses on various sectors where these companies have been working upon.

**Chapter 7** briefs about AI start-ups in financial sector. This chapter discusses about the latest technology trends, benefits, challenges and solutions offered by AI in the field of finance.

**Chapter 8** focusses on AI for healthcare industry e.g. imaging, diagnostics, remote monitoring, etc. AI can be used for early cancer detection, glaucoma detection, brain clots detection, interpret echograms, and so on. Various start-ups in health industry that use AI are discussed.

**Chapter 9** is about impact of AI on recruitment process. Better screening, and fitment of candidates for jobs can be done. Again, the work done by various start-ups globally in this field are discussed.

**Chapter 10** tells about popular start-ups like Myntra, Belmiraz, in the field of fashion. Also, how hospitality, law and agriculture industry got benefitted by AI has been discussed.

**Chapter 11** talks about most important aspect of AI for a common man i.e. privacy. It tells about how biasness of AI algorithms can be beneficial or harmful to consumers. It also tells about how overindulgence in social media is harming general public.

**Chapter 12** is about future of AI in fields like voice-based systems, computer vision, self-driving vehicles, robots, drones, etc. It also compares diligently the human brain and computer in terms of processing speed, flexibility, weight and space etc. It also tells about the expectation of human beings from machines in future and how humans will match themselves with capabilities of machines.

The author has done justice to the subject and presented detailed information related to AI and its vast applications that impact human beings directly or indirectly.