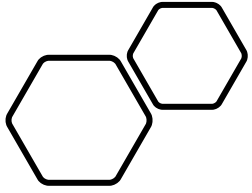




Artificial Intelligence

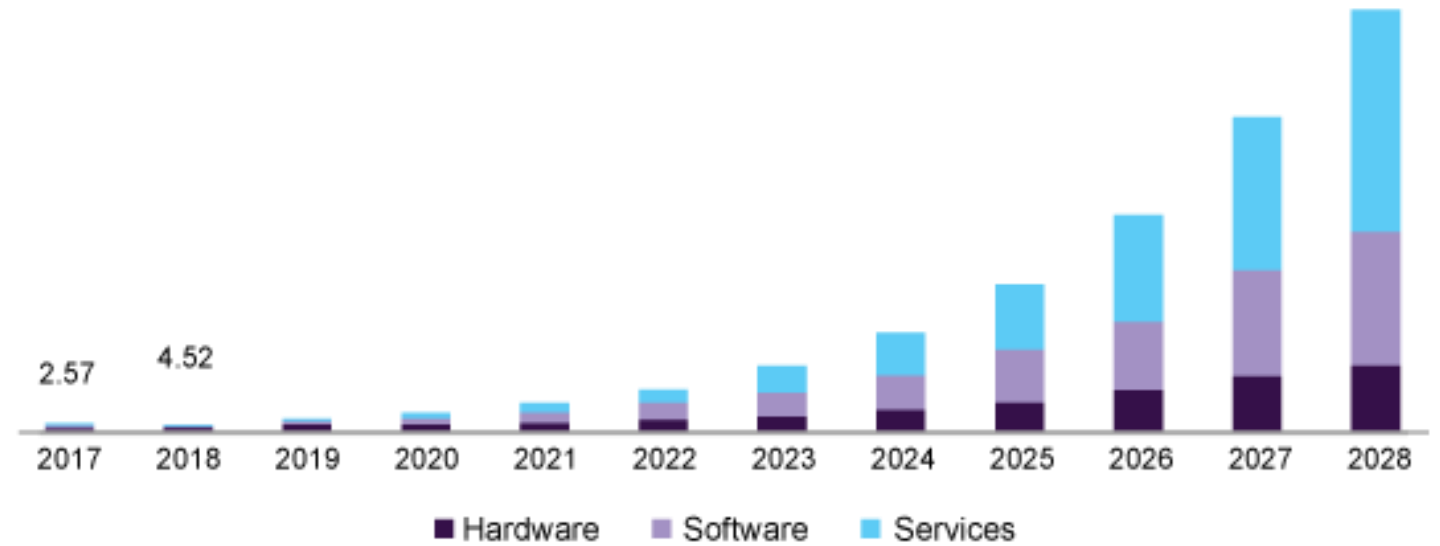
VBDS1402

Subject Teacher: Sanjeela Sagar

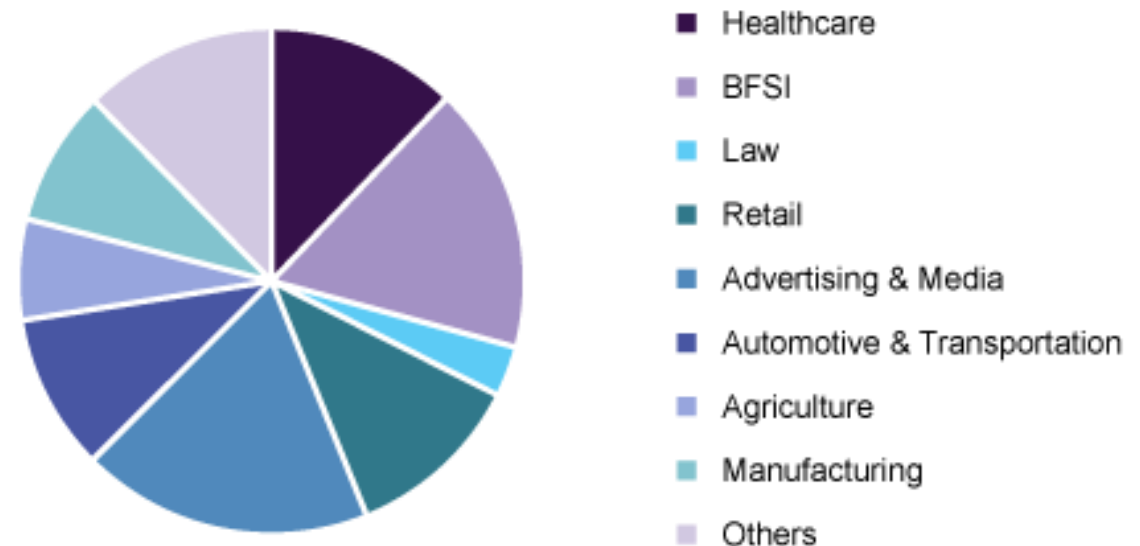


Why AI?

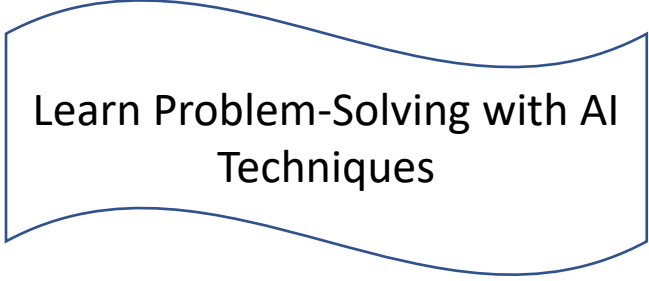
- Increasing need for intelligent and accurate decision-making across industries.
- An introductory course in AI is a good place to start as it will give you an overview of the components bring you up to speed on the AI research and developments to date.



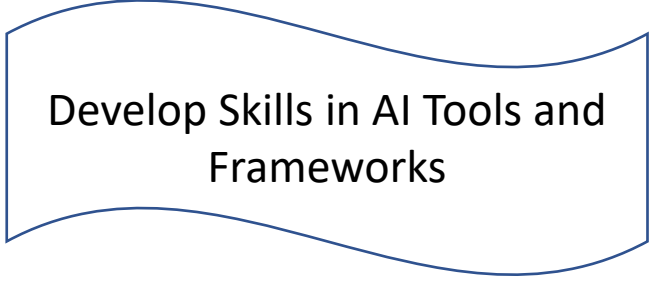
Source: www.grandviewresearch.com



Source: www.grandviewresearch.com



Learn Problem-Solving with AI
Techniques



Develop Skills in AI Tools and
Frameworks

Course Objectives

Scope of Artificial Intelligence

In India Artificial Intelligence has a safe and promising future.

AI has the option of adding \$957 billion to the Indian economy by 2035, or 15 per cent of the current total value.

For starters, AI can provide significant incremental value for the electricity, transportation, manufacturing, health care, education, and agricultural sectors.

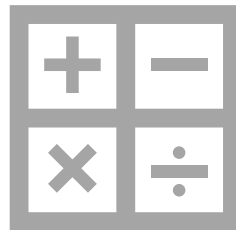
That will also mean job opportunities in all of these areas, for AI experts and others alike.

AI will help the nation to grow.

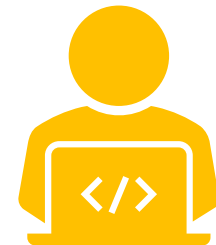
Prerequisite of the course



Data Structures (Graphs, Trees,
Search Techniques)



Discrete Mathematics (Graphs,
Logic, Predicate Logic)



Programming (Basic
Programming constructs)

Syllabus



Unit 1

Introduction to AI and Intelligent Agents
Solving Problems by Searching
Adversarial Search



Unit 2

Logical Agents
First Order Logic and Inference
Planning

Practical's

No.	Title/Aim
1	Write a program to implement depth first search algorithm.
2	Write a program to implement breadth first search algorithm.
3	State the water jug problem. Write a program to solve the water jug problem.
4	Write a program to simulate the N-Queen problem
5	Solve travelling salesman problems using artificial intelligence techniques.
6	Write a program to solve the Tower of Hanoi problem.
7	Solve the block of World problem.
8	Design the simulation of tic – tac – toe game using min-max algorithm.
9	Write a program to implement alpha beta search.
10	Write a program for a Hill climbing problem.

EXAMPLES OF ARTIFICIAL INTELLIGENCE APPLICATIONS



VIDEO GAMES LIKE
FAR CRY



VIRTUAL ASSISTANT LIKE
SIRI, ALEXA, CORTANA



CRM LIKE
CHATBOTS



ENTERTAINMENT LIKE
NETFLIX, YOU TUBE



AUTOMOBILE LIKE
TESLA



APPLICATIONS OF ARTIFICIAL INTELLIGENCE





Our Teacher

- Ms. Sanjeela Sagar
- M.C.A, NET
- Teaching since 1999
- Area of Expertise: – AI, Machine Learning

References



Books:

Artificial Intelligence: A modern Approach by Russell

Artificial Intelligence by Rich & Knight



Web Links:

[https://www.cs.utexas.edu/~mooney/cs343/100 projects from Github:](https://www.cs.utexas.edu/~mooney/cs343/100-projects-from-Github)

<https://meta-guide.com/software-meta-guide/100-best-github-expert-system>



