Artificial intelligence (AI)

Artificial intelligence is a branch of computer science that aims to create intelligent machines. It has become an essential part of the technology industry.

Research associated with artificial intelligence is highly technical and specialized. The core problems of artificial intelligence include programming computers for certain traits such as:

- Knowledge
- Reasoning
- Problem solving
- Perception
- Learning
- Planning
- Ability to manipulate and move objects

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Technology Established: Artificial intelligence was founded as an academic discipline in 1956, and in the years since has experienced several waves of optimism,[8][9] followed by disappointment and the loss of funding (known as an "AI winter"), followed by new approaches, success and renewed funding. For most of its history, AI research has been divided into subfields that often fail to communicate with each other. These sub-fields are based on technical considerations, such as particular goals (e.g. "robotics" or "machine learning"), the use of particular tools ("logic" or artificial neural networks), or deep philosophical differences. Subfields have also been based on social factors (particular institutions or the work of particular researchers).

Job Market Scope India: Globally, no one is doing AI innovation for the social sector, India can lead here. That's indeed the overarching vision in the first major blueprint on AI that was released this month—a discussion paper from government think-tank NITI Aayog, titled National Strategy for Artificial Intelligence. The priorities are as evident as they can be. India's agriculture is weirdly inefficient, as it employs just a little under 50% of the total population but contributes only around 18% to the GDP.

Salaries Range: When it comes to remuneration, according to the study, the median salary of AI professionals in India is Rs 14.3 lakh across all experience level and skill sets.

Nearly 40 per cent of AI professionals have an entry-level salary of Rs 6 lakh onwards, while around 4 per cent command a salary higher than Rs 50 lakh, reflecting the massive demand for mid and senior-level AI talent in the country.

A city-wise remuneration comparison reveals that Mumbai is the highest paymaster in AI, at almost Rs 15.6 lakh per annum, followed by Bengaluru at Rs 14.5 lakh, and Chennai, the lowest paymaster, at Rs 10.4 lakh.

On the demand side, the 10 leading organisations with the greatest number of AI openings this year are IBM, Accenture, Amazon, Fractal Analytics, Societe Generale, SAP Labs, 24/7 Customer, Atos, Nvidia and Tech Mahindra.

Recruitment Locations: All over India cities (Bangalore, Mumbai, Hyderabad, Chennai, Pune and Others)

Recruiting Companies: All the MNC's companies. Companies that hire top AI talent range from startups like Argo AI to tech giants like IBM.

Eligibility: Observed recruitment is starting minimum 2 years with strong mathematics background. The top skill sets that AI employers are looking for are machine learning, natural language processing, neural networks, analytics, cloud computing and pattern recognition, according to the study.

- Mathematics, extending to mathematical logic. This stresses on topics such as algorithms, algebra, probability, calculus, and statistics.

- Sciences, mainly physics also plays an important part. This includes physics and engineering, neural nets, graphical modelling, cognitive science theory, and robotics.

- Some knowledge of biology, mainly related to physiology and psychology is required.

- The theory behind computer science and how it actually works.

- Programming languages and coding is an absolute must. It is important to learn at least 2 to 3 universal coding languages that can be used for machine language coding. Examples of such languages are C, Java, and Prolog to name a few.

Job Roles: Machine Learning Engineer, Data Scientist, Business Intelligence Developer, Research Scientist, and Big Data Engineer/Architect.

Artificial Intelligence Statics:
The job market has seen a notable change due to artificial intelligence implementation. It has simplified the process for both recruiters and job seekers (i.e., Google for Jobs and applying online). 65% of people launch a job search again within 91 days of being hired. AI-powered engine streamlines the complexity of job hunting by operating information on job skills, salaries, and user tendencies, matching people to the most relevant positions. Machine intelligence calculates what wages would be appropriate for a particular job, pulls and highlights resume information for recruiters using natural language processing, which extracts relevant words and phrases from text using specialized software. Another application is an AI resume builder which requires 5 minutes to compile a CV as opposed to spending hours doing the same job. In the AI age chatbots assist website visitors and solve daily workflows. Revolutionary AI tools complement people's skills and allow HR managers to focus on tasks of higher priority. However, Artificial Intelligence impact on jobs research suggests that by 2030 intelligent agents and robots can eliminate 30% of the world's human labor. Moreover, the research proves automation will displace between 400 and 800 million employees. Glassdoor's research report states that recruiting and HR are expected to see much broader adoption of AI in job market 2018 and beyond.

JOB TITLE	AVERAGE ANNUAL SALARY
Data Scientist	$195,000
Machine Learning Engineer	$120931
Robotics Scientist	$88,900
Business Intelligence Developer	$70,056
Software Developer	$104,463
AI research Scientist	$136,233