

AI & DS FAQs

1. How is B.E AI & DS Different from Computer Science and Engineering?

First, what is Data Science? It is the extraction of interesting knowledge from data. Data Science techniques involve Computer Engineering, Mathematics (especially statistics) and Deep Domain Knowledge of the problem to be solved. Data Science is especially useful for prediction of important events and for smart decision making.

AI is a specialization of Data Science and Computer Science.

AI includes the following:

- Representations of "reality," cognition, and information
- Machine learning
- Representations of vision and language
- Robotics
- Virtual reality

Currently, "AI & DS" is the most in-demand branch of engineering. While computer science and engineering (CSE) has traditionally been the favorite choice of the top-ranking JEE students, the trend has changed this year.

(See: Why Are Students Choosing AI Courses Over Computer Sciences? - <https://analyticsindiamag.com/why-are-students-choosing-ai-courses-over-computer-sciences/>)

2. Can B.E AI & DS students get placement opportunities in software companies?

The most in-demand talent in software companies is in the **ABCD** of Digital – **A**I, **B**lockchain, **C**loud and **D**ata Analytics. Of the above, A, C & D will have the maximum demand.

A NASSCOM report titled – "FutureSkills Talent In India – Demand Supply Analysis¹" – October 2020

- India's demand for Digital Talent jobs is approximately 8X larger than the fresh talent pool. By 2024, this demand is expected to become 20X the available fresh talent pool

<https://nasscom.in/knowledge-center/publications/futureskills-talent-india-demand-supply-analysis>

3. What are the special/specific placement opportunities for B.E AI & DS students?

In industry, there is a very strong demand for the following job roles, and the AI & DS course will students ready to take on these roles successfully:

- Big Data Engineer
- Business Intelligence Developer
- Data Scientist
- Machine Learning Engineer
- Research Scientist
- AI Data Analyst
- Product Manager
- AI Engineer
- Robotics Scientist

4. Is B.E. in AI & DS a good foundation for higher studies abroad?

5. What courses are done by B.E AI & DS students on par with CSE to attain placements in Software companies?

A degree in AI & DS will give students exposure in very hot domains such as computer vision, natural language processing, robotics, and interdisciplinary areas such as neuroscience, edge computing, and Internet of Things.

6. How can a student who wants to start his own company (Entrepreneur) benefit?

Every major company (Google, Amazon, Apple, Microsoft, Reliance (Jio), Tata Digital, ...) is dedicating massive amounts of resources and funding to attain breakthroughs in artificial intelligence. Personal assistants like Siri and Alexa have made AI a part of our daily lives. Meanwhile, revolutionary breakthroughs like self-driving cars may not be the norm, but are within reach.

Because the need is urgent, and there is shortage of in-house talent, these companies will acqui-hire, i.e. acquire at very strong valuation innovative startups in the field of AI.

Also, many tech startups in India are becoming unicorns. India's startup ecosystem is showing great promise. In short, it is an exciting time to be a "tech startup". The AI industry even broke records during the global uncertainty of the COVID-19 pandemic, with artificial intelligence startups raising \$33 billion in 2020, according to CB Insights.