

DATA SCIENCE & ML

in

IT INDUSTRY

Curated by  tutort academy





What is DS & ML in the IT Industry?

Data Science and Machine learning are highly important in the IT Industry. They have a significant impact on the IT industry, driving innovations, efficiency, and better decision making.

USES OF DATA SCIENCE AND MACHINE LEARNING IN IT INDUSTRY

Anomaly Detection



Machine learning algorithms detect usual activities in IT systems, aiding in the identification of security breaches and potential cyber attacks, helping them respond quickly and strengthen system defenses.

Predictive Maintenance



By analyzing past data, machine learning predicts when IT infrastructure components may malfunction. This proactive approach optimizes resource allocation and reduces downtime.

Fraud Detection



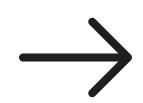
Machine learning models can identify and detect fraudulent activities in IT systems, like unauthorized access attempts. This enhances security and protects sensitive data.



Gunjan Bhadani
Data Analyst

From

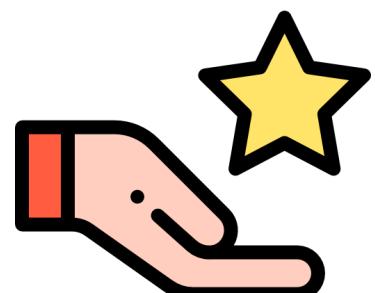
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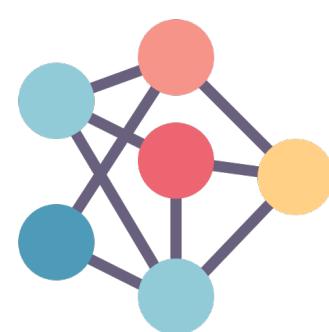
Google

our
**Success
Story**



Recommendation System

Data science algorithms analyze user behavior and preferences to provide personalized recommendations. This is valuable in IT product recommendations.



Network Optimization

It uses machine learning algorithms to analyze network traffic patterns, improving performance, bandwidth allocations and overall efficiency.



Virtual assistance and chatbots

Powered by NLP and machine learning, offer personalized assistance and automate routine IT tasks, providing efficient and professional customer service.



Mohit Agrawal
Data Scientist at EY

From



To



our
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Story**

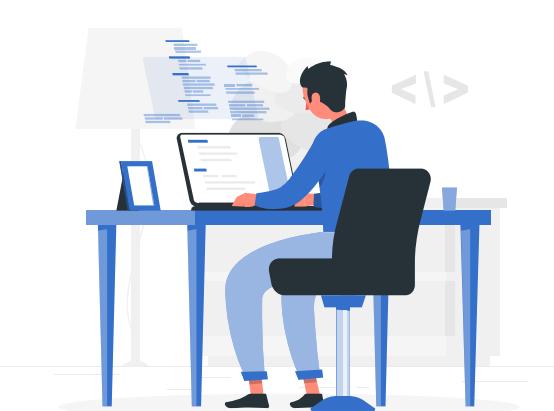


BENEFITS OF DS/ML IN IT

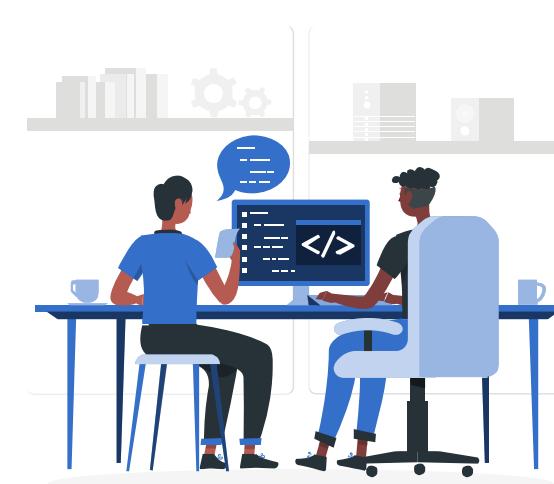
DS/ML systems are used by companies for a variety of reasons. The following are the most prevalent benefits of DS/ ML for IT Industry:

- ▶ Bring Automation to various process
- ▶ Reduced reliance on human interactions
- ▶ Efficient data management
- ▶ Versatile applications

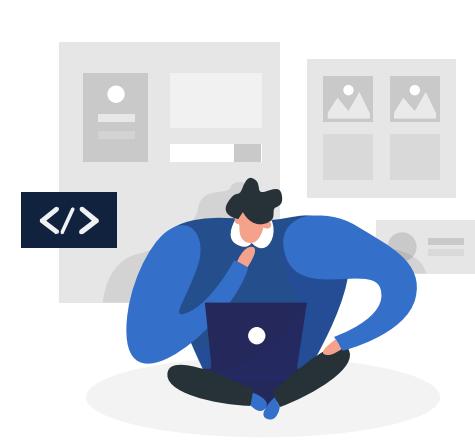
Data Science & Machine Learning

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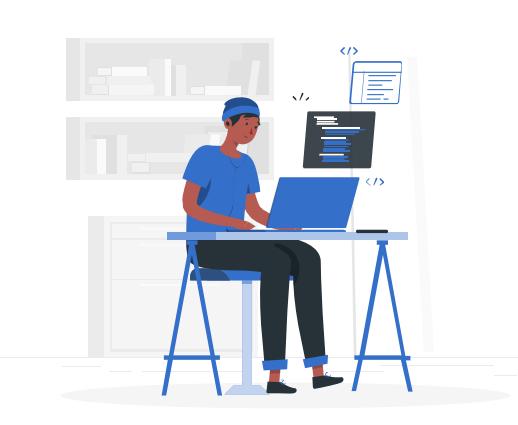
Full Stack Data Science (AI & ML)

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DSA with System Design

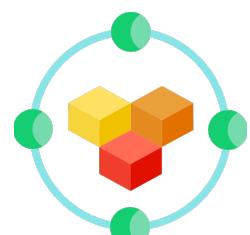
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Full Stack with MERN

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DATA ANALYTICS TOOLS FOR IT



Modeling

R, SAS, and Python are popular tools in IT sector for modeling. R and Python are now widely used, with specialized packages available for IT analysis.



Optimization

Excel is commonly used for optimization purposes, but R and Python boast impressive optimization packages.



Visualization & Dashboarding Tools

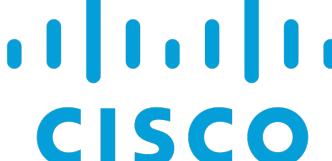
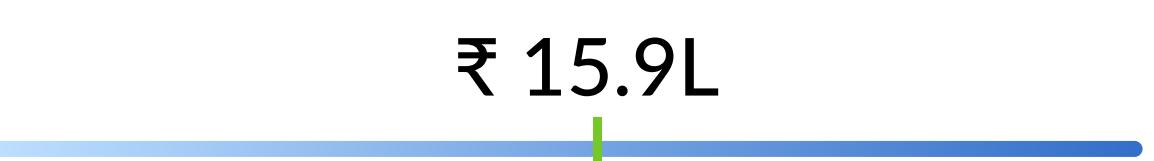
Tools such as Spotfire, PowerBI, QlikView, Tableau, & SAS Visual Analytics, CXO have made a substantial impact in the IT Industry.



Segmentation

SAS E miner is a well-known, pricey tool for segmentation. Alternatively, Knowledge Seeker, & Knowledge Studio present more budget friendly options.

Data Scientist Salary Trends In IT Sector

Company Name	Average Annual Salary
GOOGLE  Data Scientist Salary 4 yrs exp (162 Salaries)	₹ 35.2L  ₹ 7.7L ₹ 85.0L
AMAZON  Data Scientist Salary 1-8 yrs exp (29 Salaries)	₹ 24.6L  ₹ 4.3L ₹ 66.0L
ADOBE  Data Scientist Salary 2-7 yrs exp (9 Salaries)	₹ 28.1L  ₹ 11.0L ₹ 45.0L
ORACLE  Data Scientist Salary 1-9 yrs exp (95 Salaries)	₹ 11.4L  ₹ 3.5L ₹ 32.0L
FRACTAL ANALYTICS  Data Scientist Salary 1-6 yrs exp (12 Salaries)	₹ 16.7L  ₹ 7.0L ₹ 26.0L
CISCO  Data Scientist Salary 2-8 yrs exp (47 Salaries)	₹ 15.9L  ₹ 6.0L ₹ 30.0L

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Phone

+91-8712338901

E-mail

contact@tutort.net

Address

D001, Shilpitha Splendour Annex,
Bengaluru, Karnataka 560048