

Role Exploration Report: Data Scientist

A **Data Scientist** is a multidisciplinary expert who transforms raw data into actionable insights. In healthcare, they play a pivotal role in building predictive models, analysing clinical trends, and optimizing patient outcomes using AI-driven tools.

Responsibilities

- Collect, clean, and preprocess large datasets
- Perform exploratory data analysis and statistical modelling
- Build and evaluate machine learning models
- Communicate findings through visualizations and reports
- Collaborate with domain experts to guide decision-making

Skills & Tools

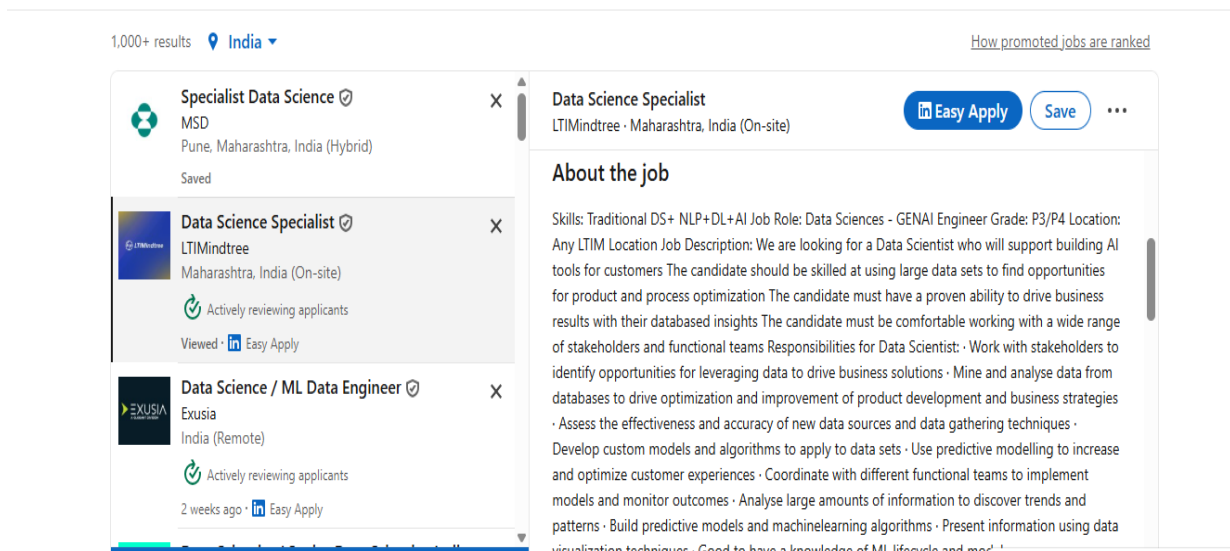
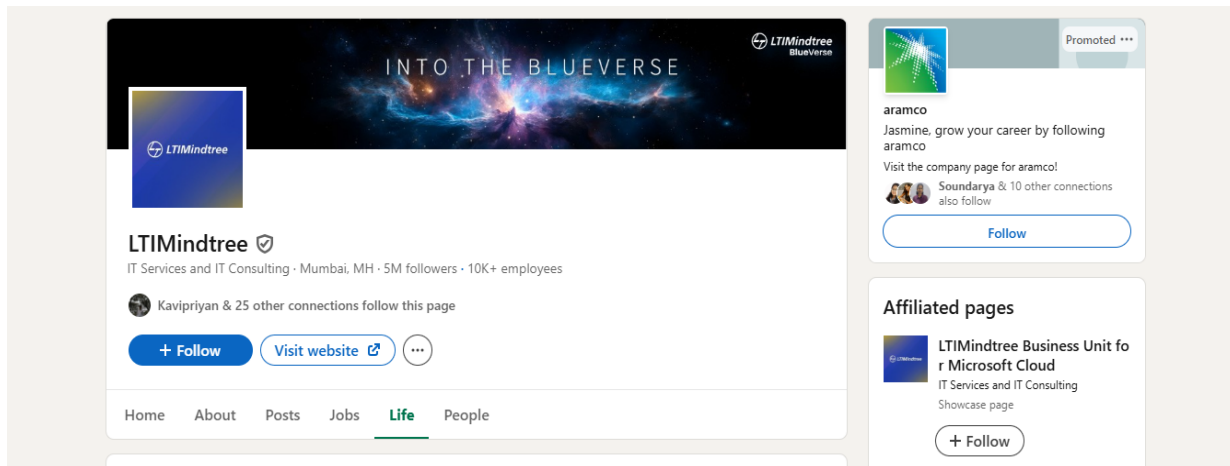
- **Programming:** Python, R, SQL
- **Libraries:** Pandas, Scikit-learn, TensorFlow, ggplot2
- **Visualization:** Matplotlib, Seaborn, Power BI
- **ML Techniques:** Regression, Clustering, Decision Trees, Neural Networks
- **GenAI Tools:** Azure OpenAI, Llama Index, Vector DB, Prompt Engineering
- **Soft Skills:** Communication, critical thinking, domain knowledge

Real Job Post Snapshot

Below is a real LinkedIn job post from LTI Mindtree for a GenAI Data Scientist role. Five key requirements highlighted:



1. Experience developing production-level GenAI solutions using Azure OpenAI
2. Familiarity with prompt engineering, RAG, and fine-tuning open-source LLMs





3. Strong foundation in ML lifecycle and model governance
4. Proficiency in Python, R, and statistical modelling techniques
5. Ability to collaborate across teams and present insights using visualization tools










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