

Mohanalakshmi S

Graduate Engineer Trainee

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Profile

Entry-level Data Scientist with hands-on experience applying machine learning, statistical modeling, and data analysis to real-world datasets. Skilled in Python, scikit-learn, Power BI, and SQL to develop and implement end-to-end data science projects. Strong problem-solving mindset and ability to translate technical findings into actionable business insights. Collaborative learner with exposure to production systems through IT support experience.

Professional Experience

HCL Tech

Graduate Engineer Trainee

09/2022 – 01/2025

Madurai, India

- Delivered L1.5 production support ensuring 24/7 uptime
- Managed batch jobs via Control-M, resolved incidents, and used SQL for data validation
- Prepared regulatory reports and collaborated with L2/L3 teams

Education

B Tech - Information Technology

JJ College of Engineering and Technology

08/2018 – 06/2022

Tiruchirappalli, India

Projects

Root Cause & Impact Analysis Dashboard

- Designed and implemented an interactive Power BI dashboard analyzing 5,000+ IT support tickets
- Engineered features (resolution time, SLA breach flags) using Python & SQL to deliver actionable insights for process optimization
- Visualized trends to identify growth opportunities and reduce SLA breaches

Retail Order Data Analysis

- Developed a sales analysis dashboard using Python, SQL, and Streamlit
- Generated 20+ business insights by querying and aggregating retail data
- Visualized key trends to identify seasonal demand and optimize inventory planning

House Price Prediction - Linear Regression

- Developed and implemented a linear regression model ($R^2 \approx 85\%$) to predict house prices based on key features
- Conducted data cleaning, exploratory data analysis (EDA), and evaluated model with MSE and RMSE
- Translated model findings into business-friendly insights on pricing trends

Wine Quality Prediction - KNN Regression

- Built a regression model using KNN ($R^2 \approx 78\%$, RMSE ≈ 0.56) to estimate wine quality from physicochemical properties
- Applied data preprocessing, normalization, and visualization to highlight influential features
- Presented actionable insights for quality control and product improvement

Skills / Language

- Programming & Data | Python, SQL, Pandas, NumPy |
- Machine Learning & Modeling | scikit-learn, linear & logistic regression, KNN, clustering, EDA |
- Visualization & BI | Power BI, Matplotlib, Seaborn, Streamlit |
- Cloud & Tools | GCP basics, Git, Jupyter, Control-M, Excel |
- Soft Skills | Problem solving, collaboration, analytical thinking |

Certificates

- GCP - Google
- Power BI - Guvi
- Data Science - Guvi (Ongoing)