

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

09/2022 – 01/2025

Graduate Engineer Trainee

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

08/2018 – 06/2022

JJ College of Engineering and Technology

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)