THARANI S

Data Analyst | Machine Learning & Generative AI

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PROFESSIONAL SUMMARY

Data Scientist Intern with hands-on, project-based experience in Python, SQL, Machine Learning, and Generative AI (LangChain, RAG, FAISS) — including a text-to-SQL chatbot and a multi-document Q&A assistant. Skilled in data analysis and Power BI/Excel reporting. Seeking a Data Analyst or Junior Data Scientist role to apply these skills to real business problems.

- Completed 5+ independent ML and Generative AI projects spanning predictive analytics, NLP, and computer vision.
- Built RAG-based chatbots and AI agents that connect to live relational databases for real-time data querying.

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn), SQL

Machine Learning: Linear & Logistic Regression, Decision Trees, Random Forest, SVM, Naive Bayes, k-NN, XGBoost, AdaBoost, PCA, K-Means & Hierarchical Clustering, Feature Engineering, Hyperparameter Tuning

Deep Learning: Artificial Neural Networks (ANN), CNN, RNN

Generative AI & LLMs: LangChain, FAISS, Google Gemini API, Retrieval-Augmented Generation (RAG), Prompt Engineering, Text-to-SQL

Data Analysis & Visualization: Exploratory Data Analysis, Data Cleaning, Power BI (DAX, Power Query, Dashboards), MS Excel (VLOOKUP, Pivot Tables)

Databases: MySQL, Oracle SQL —Joins, Subqueries, Normalization, Views, Query Optimization

Tools: Git, GitHub, VS Code, Jupyter Notebook, MySQL Workbench

Statistics: Descriptive & Inferential Statistics, Probability, Hypothesis Testing, Correlation & Covariance, Evaluation Metrics (Accuracy, Precision, Recall, F1-score, RMSE)

INTERNSHIP EXPERIENCE

Data Scientist Intern — QSpiders Aug 2025 – Present

Software Testing Training Institute | Bengaluru, India

- Build end-to-end data analysis pipelines using Python, SQL optimization, and machine learning to convert raw datasets into actionable insights.
- Develop and tune regression and classification models, applying feature engineering and hyperparameter optimization to improve predictive performance.
- Apply deep learning methods (ANN, CNN) for pattern recognition tasks as part of applied training projects.
- Design Generative AI solutions, including RAG-based document retrieval and LLM-powered question answering.

PROJECTS

Multi-Document RAG Research Assistant

Python, LangChain, FAISS, LLMs

- Built a multi-document RAG research assistant using semantic search, text chunking, embeddings, and FAISS vector storage to generate grounded, LLM-powered answers from uploaded documents

AI SQL Query Generator (Text-to-SQL RAG Chatbot)

Python, SQL, LangChain, MySQL

- Built a text-to-SQL chatbot that uses prompt engineering and RAG to convert natural-language questions into accurate SQL queries against a live MySQL database, reducing manual query writing for routine lookups.

Autonomous AI Agent for Data Analysis

Python, Pandas, Scikit-learn

- Built a Python-based agent that automates exploratory data analysis, data cleaning, and descriptive statistics on tabular datasets, implemented a Natural Query interface, allowing users to ask questions without writing code.

PROFESSIONAL EXPERIENCE (PRE-IT)

Quality Engineer

TVS Motor Company, Hosur 2017 – 2020

EDUCATION

Bachelor of Engineering — Electronics and Communication Engineering 2022 – 2025

Er. Perumal Manimekalai College of Engineering, Hosur | CGPA: 7.5/10

Diploma — Electrical and Electronics Engineering 2015 – 2017

Seshasayee Institute of Technology, Trichy | CGPA: 7.79/10