VINEETHA GOMATHY
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Aspiring Data Scientist | Former Database Architect

Transitioning into Data Science with 15+ years of experience in data architecture, analysis, and engineering. Skilled in solving real-world problems through data-driven insights, machine learning models, and scalable data pipelines. Hands-on experience in Python, Scikit-learn, Flask, and SQL, with projects spanning regression, classification, and predictive analytics. Proven ability to bridge business requirements with analytical solutions.

TECHNICAL SKILLS

Data Science & ML: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Flask, Jupyter
Data Analytics & BI: SQL, Tableau, Power BI, Excel
Databases & ETL: PostgreSQL, MySQL, Oracle, SQL Server, MariaDB, Pentaho, SSIS
Tools & Platforms: AWS RDS, Git, Visual Studio Code
Other: Data Wrangling, EDA, Feature Engineering, Model Evaluation, Flask Deployment

DATA SCIENCE PROJECTS

Airbnb Price Prediction Model

- Built a regression model to predict Airbnb listing prices using XGBoost and GridSearchCV.

- Performed log transformation of the target variable, encoded categorical features, and used SHAP for feature importance.

- Achieved an R^2 score of 0.70+ on test data.
  Tech Stack: Python, Pandas, Scikit-learn, XGBoost, SHAP, Streamlit

Face Recognition System using ML

- Developed a face recognition pipeline using Haar cascade classifiers for face/eye detection and wavelet transforms for feature extraction.

- Trained and evaluated multiple classifiers (Logistic Regression, SVM, Random Forest) and selected the best-performing model.

- Deployed the solution with Flask and saved the model using Pickle and JSON.
  Tech Stack: OpenCV, Scikit-learn, Python, Flask

HR Data Analytics – BITS Pilani

• Predicted candidate joining probability to reduce recruitment cost
• Built complete ML pipeline: Data Collection, Feature Engineering, Logistic Regression, Model Evaluation, Flask Deployment
• Tools: Python, Pandas, NumPy, Scikit-learn, Flask, Matplotlib

PROFESSIONAL EXPERIENCE

iFly Loyalty Data Migration – Solaseed Airlines, Japan

Role: Database Architect
Company: IBS Software, Info park, Kochi
Duration: Dec 2023 – Sep 2024
Tech Stack: Python, PostgreSQL (AWS RDS)

- Collaborated with business analysts and stakeholders to analyse source system data and map it to the iFly Loyalty data model.

- Built Python-based data cleansing and transformation scripts to ensure high-quality, structured input for the iFly system.

- Led the data migration process for Solaseed Airlines (a Japan Airlines partner), aligning legacy data with modern relational schemas to enable seamless integration and reporting.

- Focused on data quality checks, null handling, and load validation, preparing clean datasets for loyalty-based analytics.

CASS 2.0 – IATA (International Air Transport Association)

Role: Database Architect
Company: IBS Software, Info park, Kochi
Duration: Sep 2021 – Nov 2023
Tech Stack: PostgreSQL (AWS RDS)

- Designed and maintained relational schemas supporting IATA's global Cargo Accounts Settlement System, used by over 115 airlines.

- Worked cross-functionally to interpret functional and system requirements into scalable data models.

- Led data migration, performed validation and performance tuning, and supported QA and production teams in live data flow monitoring and issue resolution.

- Enabled downstream analytics by ensuring data consistency and traceability for airline settlement records.

Paragon Meter Tracking Platform – Vantage Meters, UK

Role: Database Consultant
Company: Emvigo Technologies, Kochi
Duration: Aug 2020 – Aug 2021
Tech Stack: MariaDB (AWS RDS), Pentaho

- Led a team of DB developers in building and optimizing data pipelines for Paragon — a SaaS platform for metering asset lifecycle tracking.

- Designed multi-tenant database schemas and collaborated with business teams for data mapping and validation.

- Used Pentaho ETL tools to automate data ingestion, transformation, and error handling from multiple energy providers.

- Enabled structured data capture to support future integration with predictive maintenance and asset analytics modules.

AXIOM HQ – Axiom, USA

Role: Database Consultant
Company: InApp Technologies, Technopark, Trivandrum
Duration: Jul 2016 – Mar 2019
Tech Stack: SQL Server 2012/2014

- Supported the development of a scalable analytics-driven ERP platform offering modules like General Ledger, Inventory, and Order Processing for distributors in the US.

- Developed complex SQL procedures and business logic to support real-time dashboards, reporting modules, and transactional insights.

- Contributed to data extraction and preprocessing logic for financial and operational datasets used by Axiom's clients for decision-making.

Ultrasound Documentation & Reporting System – NetReach Software, Singapore

Role: Database Developer
Company: NetReach Software, International Plaza, Singapore
Duration: Nov 2003 – Nov 2004
Tech Stack: Oracle 9i, PL/SQL

- Developed backend logic for a healthcare imaging system designed to analyse and report fetal ultrasound results.

- Created PL/SQL procedures, functions, and triggers to automate sonographic calculations, including fetal age estimation, graphing metrics, and measurement summaries.

- Enabled structured output generation for sonographers and radiologists, supporting clinical decision-making.

Systems Analyst | Fineng Solutions, Mumbai

Nov 2000 – Nov 2003
• Developed backend logic for treasury-dealing platform used by HSBC, ICICI
• Built modules using Oracle PL/SQL for finance workflowsEDUCATION

M.Tech in Software Systems
BITS Pilani, 2018 – 2020

References

Suchithra Vinod
Vice President, InApp Technologies, Technopark, Trivandrum
LinkedIn Profile

Resmi Raman
Service Delivery Manager, IBS Software, Kochi
LinkedIn Profile