Febin Modavancheri

Data Engineer

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PROFILE SUMMARY

SQL Specialist with **5+** years of backend development experience, transitioning into **Data Science.** Proficient in **Python** (Pandas, NumPy), **R, machine learning,** and **data visualization**. Passionate about leveraging database expertise to build scalable data pipelines and predictive models.

SKILLS

- Programming : **Python (Pandas, NumPy, PyTorch), SQL (MySQL, NoSQL), R, PHP** (Laravel)
- Tools: **Power BI, Tableau, Excel, Git, Firebase**
- Machine Learning: Regression, Clustering, Feature Engineering, Transformer Models
- Data Management: **ETL Pipelines,** Database Design, Data Cleaning
- Soft Skills : Collaborative, Detail-Oriented, Cross-Functional Communication

PROFESSIONAL EXPERIENCE

Inventory & Financial Data Specialist
SBG LONDON   **Jan 2024 - Mar 2024 (Part-Time)**

- Designed a real-time data platform for inventory/sales analytics, **reducing reporting errors by 45%.**
- Automated data validation protocols for financial transactions (10,000+ records/day).

Data Solutions Developer
Expose Infotech Pvt. Ltd.   **Feb 2019 - Mar 2022, Dec 2016 - Jan 2018**

- Led backend development for financial systems processing **10,000+ daily transactions** using **PHP/Larave**l and **MySQL**.
- Architected **RESTful** APIs that improved third-party integrations by **40%** efficiency.
- Developed automated data validation workflows, reducing reporting errors by 45%.
- Collaborated with product teams to refine data collection techniques for third-party integrations.

Data Systems Specialist
Beacon Infotech Pvt. Ltd.   **Mar 2018 - Jan 2019**

- Developed **15+ production websites** including employee tracking portals and e-commerce platforms using Laravel/MySQL.
- Designed **scalable SQL databases** for high-traffic applications (50+ concurrent users).
- Implemented **Firebase** for **real-time tracking systems,** tracking 50+ users Implemented.
- Translated client requirements into technical specs for 8+ projects.

Projects

- **EHR-Heart Prediction** | **Python** : Heart disease predictor from EHR (comparison of traditional ML models with transformer based models for efficient prediction).
- **Retail Demand Forecaster** | **Python, Excel –** Analysed sales trends, built time-series models (reduced stockouts by 20%), and automated Excel reports for stakeholders.
- **Bengaluru Route Optimiser** | **Python** : Testing phase - Prototyping a real-time transit planner that recommends fastest/cheapest routes (metro/bus/auto) using live traffic and schedule data.

EDUCATION

Master of Science in Data Science   **April 2025**
University of Essex
Bachelor of Technology   **May 2016**
Computer Science and Engineering