AKASH U

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Professional Summary

Software Engineer fresher specializing in Python, SQL, JavaScript, and Django with expertise in REST APIs, data engineering, and machine learning. Experienced in building scalable full-stack applications and deploying AI/ML models into production. Strong problem-solving, analytical thinking, and teamwork skills. Key projects include a Natural Language to SQL Query Generator (95% query accuracy, 80% manual effort reduction) and an AI-Powered Personal Finance Advisor (85% model accuracy, <500ms inference).

Technical Skills

- Languages: Python, SQL (MySQL, PostgreSQL), JavaScript, HTML, CSS
- Frameworks & Libraries: Django, Django REST Framework, Streamlit, Pandas, NumPy, Scikit-learn
- Tools & Platforms: Git, GitHub, AWS, Jupyter, OpenAI API, Linux
- Visualization: Power BI, Tableau, Matplotlib, Plotly, Excel
- Core CS: Data Structures, OOP, DBMS, Unit Testing, Debugging

Projects

Natural Language to SQL Query Generator :   JUN 2025 – JUL 2025
| React, FastAPI, MySQL, GPT-4

- Developed a full-stack app enabling users to query MySQL databases in plain English via React frontend and FastAPI backend.
- Implemented GPT-4 powered dynamic SQL generation, achieving 95% accuracy in converting natural language prompts to queries.
- Designed secure DB connection handling with 5+ configurable parameters and real-time schema validation.
- Optimized user workflows by reducing manual SQL writing effort by 80%, with formatted outputs and error handling.

Personal Finance Advisor :   APR 2025 – MAY 2025
| Python, Streamlit, Django, Scikit-learn

- Built an AI-driven advisor to classify expenses with 85% model accuracy and provide predictive financial insights.
- Engineered and preprocessed 5,000+ transactional records using Pandas/NumPy for robust ML model training.
- Implemented supervised ML models to forecast expenses and savings with MAE < ₹500.
- Visualized anomalies and trends with Matplotlib & Plotly, improving user insights by 30%.
- Optimized inference to <500ms for real-time recommendations and deployed seamlessly on Streamlit Cloud.

Experience

Bluestock Fintech – Software Development Engineer Intern   JUL 2025 – AUG 2025
Automated Financial Metrics Analysis – Machine Learning Project:

- *Automated financial data pipelines by integrating StockTicker API with ML models for 100+ Nifty companies.*
- *Developed classification models to evaluate financial metrics, improving decision transparency.*
- *Integrated SQLAlchemy with MySQL for automated storage of ML-generated insights.*
- *Tested and debugged pipelines to ensure reliable financial health comparisons.*
- *Collaborated in an agile team to deliver a full-stack IPO dashboard, reducing overhead by 60%.*
- *Reviewed code contributions and improved pipeline efficiency, enhancing maintainability and performance.*

Education

- B.E. Electrical and Electronics Engineering

Panimalar Engineering College, Chennai | 2021 – 2025 | 7.5 CGPA

- Higher Secondary Certificate

Holy Prince Matriculation Higher Secondary School | 2020 – 2021 | 70%