

Atharva Bapat

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SUMMARY

Data Scientist with hands-on experience in building scalable ETL pipelines, intelligent bots using Microsoft Copilot, and NLP-based database assistants using AWS and Python. Passionate about empowering financial advisors through data-driven solutions, with a strong foundation in cloud engineering, automation, and analytics.

SKILLS & INTERESTS

Skills: Python, HTML, CSS, JavaScript/TypeScript, AWS Cloud Services, Jenkins CI/CD pipelines, Git, Langchain, Tensorflow, Hugging Face, Pandas, Tableau, OpenAI, Microsoft Copilot, Chart.js, React.

EDUCATION

University of North Carolina at Charlotte **Charlotte, NC**
Master's Degree in Computer Science *Graduation Date: May 2024*

WORK EXPERIENCE

Theoremlabs Partners LLC **Charlotte, NC**
Programmer Analyst *Sep 2024 - Present*

- Designed scalable ETL pipelines using Python, AWS Lambda, and EventBridge for real-time data ingestion and transformation, ensuring high data accuracy and consistency.
- Collaborated cross-functionally in all SDLC phases, including requirements analysis, architectural design reviews, coding, and deployment, following Agile methodologies.
- Developed a Microsoft Copilot bot that leverages the company's advisory data to intelligently answer financial advisors' questions, streamlining information access and improving decision-making speed by 60%.
- Leading the design and implementation of SQL views to provide stakeholders with tailored, actionable insights, facilitating more informed business strategy development.

University of North Carolina at Charlotte **Charlotte, NC**
Instructinal Assitant *Oct 2022 - Apr 2024*

- Facilitated and oversaw Python lab activities, mentored students in Python scripting, guiding them through problem-solving and data modeling logic during lab sessions.
- Built and maintained PowerBI dashboards visualizing key academic metrics, enabling faculty to track student performance trends and identify opportunities for intervention.

Persistent Systems **Pune, India**
Software Developer *Jan 2022 - Jun 2022*

- Built intuitive React + TypeScript dashboards integrated with AWS APIs to enable dynamic data retrieval and visualization, supporting infrastructure observability and decision-making.
- Implemented AWS API Gateway over AWS Lambda API to securely fetch data based on user-selected time ranges, ensuring privacy and enabling flexible, dynamic data retrieval tailored to specific needs.

PROJECT EXPERIENCE

- Datagaze*
- Developed a state-of-the-art NLP chatbot using AWS Bedrock foundation models, enabling users to perform natural language based CRUD operations on a PostgreSQL database.
 - Enhanced user autonomy and reduced dependency on technical teams, significantly improving data accessibility and decision making efficiency.
 - Improve the model's performance on custom database schema by applying few-shot learning and prompt engineering techniques to tailor model responses based on stored schema knowledge and query context.

- Anomaly Detection for Event Streams using Machine*
- Designed real-time anomaly detection system using Isolation Forest and DBSCAN to identify API failures, latency spikes, and anomalous user behaviors within streaming event data.
 - Implemented rolling statistical analyses and ensemble ML models for enhanced detection accuracy, applicable in fraud detection and IT security monitoring.
 - Applicable in healthcare, fintech, e-commerce, IT security, and telecom to proactively detect anomalies and prevent potential issues.