Aarushi Bahri

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Summary

Data Science Graduate student with 2+ years of experience building **large-scale ETL pipelines, enterprise data systems, and analytics workflows**. Strong in **Python, SQL, databases, and cross-functional** data problem solving to drive data-driven decisions.

Experience

Bank of America **Jul 2023 – Jul 2025**
Officer Software Engineer I B *Hyderabad,India*

- Built and maintained **large-scale ETL pipelines** ingesting data from **50+ upstream sources** into enterprise Oracle-based systems, enabling reliable analytics and reporting.
- Designed and optimized **batch data workflows using Python, SQL, Unix, and Shell**, reducing end-to-end processing time by **30%** through automation and robust error handling.
- Developed **automated reporting, scheduling, and monitoring** with exception alerts and log analysis, improving system reliability and operational visibility.
- Collaborated with **5+ cross-functional engineering teams** to troubleshoot ETL logic, schema mismatches, and database performance issues, improving delivery timelines by **40%** and system stability.

Projects

PathLearner — Adaptive Learning Roadmaps *(ReactJS, FastAPI, OpenAI API, Python)* **Nov 2025**

- Built a **full-stack application** that generates structured learning roadmaps from user inputs using backend services and REST APIs.
- Designed modular backend components to support **real-time inference, validation, and extensibility**, emphasizing maintainability.
- Developed interactive UIs for visualizing structured outputs, improving clarity by **40%** and reducing navigation friction by **30%+**.

Blockchain Voting System *(ReactJS, Node.js, MySQL, Ethereum)* **Nov 2022 – Apr 2023**

- Built a decentralized e-voting platform using Ethereum smart contracts to ensure **auditability, transparency, and tamper-proof** vote storage.
- Integrated Truffle contracts with a React UI and MySQL logging layer, delivering **secure user workflows and cryptographic verification**.

miRNA Mutation Database *(HTML, CSS, MySQL, PHP, JS)* **Jan 2022 – May 2022**

- Designed and developed a searchable biomedical mutation database for microRNA (miRNA) sequences supporting research and genomic analysis workflows.
- Implemented optimized relational schema design and efficient SQL indexing strategies to enable fast data retrieval and interactive visualization for mutation query results.

Health Assistant *(HTML, CSS, MongoDB, Node.js, FlowXO)* **Aug 2021 – Dec 2021**

- Developed an integrated medical-assistance web platform offering pharmacy inventory lookup, prescription medicine delivery, and chatbot-based guidance using FlowXO automation.
- Improved user access to medical resources by enabling real-time medicine availability checks and remote consultation support, addressing healthcare accessibility gaps for underserved communities.

Education

Stony Brook University **Aug 2025 - May 2027**
Master of Science in Data Science

Vellore Institute of Technology **Jul 2019 - May 2023**
*B.Tech in Computer Science with a specialization in Bioinformatics [**CGPA:** 8.32/10]*

Technologies

Programming: Python, SQL, C++, Java

ML & Data Tools: OpenAI API, Pandas, NumPy, Scikit-learn, PyTorch (basic), OpenCV

Databases: MySQL, Oracle DB, MongoDB

Frontend & Full Stack : React, ReactFlow, HTML/CSS

Backend: FastAPI, Node.js, REST APIs

Analytics and BI: Tableau, Power BI, Excel

Tools: Git, Unix/Linux, Shell scripting

Concepts: Data Structures, Algorithms, Enterprise data platforms