Disha Shetiya

Machine Learning Engineer
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SKILLS

Languages: Python, C++, Java, SQL, R
Frameworks & Libraries: Node.js, React, FastAPI, Transformers, LangChain, Scikit-Learn, PyTorch
Databases: MySQL, BigQuery, Postgres, NoSQL
DevOps & Tools: Docker, Jenkins, GitHub Actions, REST APIs, Postman, Git, CI/CD
Cloud & Infra: AWS (S3, Lambda), Azure (familiar)
Testing & Architecture: TDD, Microservices

EXPERIENCE

Data Analyst   Jan 2025 - Present
Innovise Technology Inc
- Developed interactive **Tableau** and **QuickSight** dashboards that converted complex metrics into actionable insights, elevating C-suite decision quality.
- Automated data extraction and transformation with advanced **SQL** and **Python** ETL pipelines, increasing analytical throughput **40%**.

Machine Learning Engineer   Feb 2024 - Jan 2025
University of Illinois at Springfield
- Fine-tuned **LLaMA3** and **GPT**-3.5 models in **Python/TensorFlow** to automate HR queries, improving response speed **76%** across distributed nodes.
- Architected Retrieval-Augmented Generation pipelines (ChromaDB + LangChain) that boosted chatbot accuracy **65%** and enabled real-time, scalable query handling.
- Employed TDD practices and Python APIs to integrate with real-time query workflows; reduced response latency by 76%.

Software Development Engineer Intern   Nov 2021 - Jun 2022
Ness Digital Engineering, India
- Built 20+ high-volume banking REST APIs in **Node.js** and **MySQL**, cutting manual workflows **35%.**
- Integrated **BigQuery** with **microservices** for fast data retrieval; combined with **React** optimizations, improved UI responsiveness **25%**.
- Deployed Jenkins **CI/CD** and **Postman**+**JUnit** testing, resolving **45+** bugs and hardening release reliability.

PROJECTS
- **Apple Health Trends Analysis** – End-to-end pipeline that cleans and features Apple Health & ECG data (**Python, Pandas**), performs EDA, serves **Tableau** visuals, and generates **LLaMA3** nudges in a **React/Tailwind** UI.
- **AI-Powered Recommendation System** – Full-stack product engine using **LLaMA3**, **FAISS**, **ChromaDB**, and **LangChain**; **FastAPI** backend with **React** front-end demonstrates scalable ML deployment.
- **Attendance System with Mask Detection** – Real-time face & mask recognition on edge devices (**OpenCV, MobileNetV2, TensorFlow**) with **95%** accuracy.
- **Travel Booking Platform** – Transactional site (**Node.js, MySQL, JavaScript**) exposing **REST APIs** for streamlined bookings.
- **Bias Mitigation in Toxicity Classification** – Fine-tuned BERT (PyTorch, Hugging Face) achieving **94.61%** accuracy while reducing bias.
- **Language Identifier (NLP)** – TF-IDF / n-gram logistic regression model reaching **97.34%** accuracy on multilingual text.

EDUCATION

Master of Science in Computer Science | *University of Illinois at Springfield, Illinois*   Aug 2022 - Dec 2023
- Coursework: Neural Network, Machine Learning, Deep Learning, Advanced Algorithms and Data Structures, Data Visualization, Web Design, Software Engineering Capstone

Bachelor of Technology in Computer Science | *MIT ADT University, India*   Aug 2019 - May 2022