

Disha Shetiya

Machine Learning Engineer

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<https://github.com/disha295>

SKILLS

Programming Languages: Python, R, Java, C++, SQL

Frameworks & Tools: LlamaIndex, Langchain, Transformers, Pytorch, Keras, ScikitLearn, HuggingFace, Pandas, NumPy, NLTK, Matplotlib, Seaborn, Tableau, RAG, LLM

Web Development: React, Node.js, MySQL, RESTful APIs, Docker, BigQuery

Tools & Technologies: Git, CI/CD (Jenkins), Postman (experience with SDLC)

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 **LLaMA 3** 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.

Software Development Engineer Intern

Nov 2021 - Jun 2022

Ness Digital Engineering, India

- Built 20+ high-volume banking REST APIs in Node.js, cutting manual workflows **35%** and accelerating data retrieval.
- Designed scalable MySQL schemas and integrated BigQuery; combined with React optimizations, improved UI responsiveness **25%**.
- Deployed Jenkins CI/CD and Postman + JUnit testing, resolving 45+ bugs and hardening release reliability.
- Drove code-review improvements that delivered robust, scalable micro-services.

PROJECTS

- **HeartTrend: Data-Driven Health Trends and Lifestyle Nudges** (disha295.github.io) – End-to-end pipeline that cleans and features AppleHealth & 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 **94.6%** 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