

SHWETA MADHALE

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☎ 551-328-5708

Education

Stevens Institute of Technology

Master of Science in Computer Science; GPA: 3.889/4.0

Sept. 2022 – May 2024

Hoboken, New Jersey

University of Mumbai

Bachelor of Engineering in Electronics and Telecommunication; GPA: 9.35/10.0

Aug. 2018 – May 2022

Mumbai, India

Experience

Levicon Systems Pvt Ltd

Software Engineer Intern

May 2022 – July 2022

Mumbai, India

- Developed a Python-based real-time energy monitoring app with cloud storage and remote backend deployment.
- Designed UI to visualize energy trends; implemented usage alerts and explored smart home integration.

Academic Projects

Cloud Microservices Migration | AWS, Node.js, CI/CD, MySQL, Docker

May 2024

- Modernized a legacy app into scalable microservices using ECS Fargate, ALB, and blue/green deployments
- Built 2 CI/CD automated pipelines, scaled high load services to 3 containers, and supported zero downtime

Symptom Mapping in Vaccine Adverse Events Reports | Python, NLP, NER, Pandas, NumPy

Nov. 2023

- Designed NLP pipeline with biomedical NER; analyzed and visualized patterns across demographics
- Evaluated mapping accuracy for Word2Vec (19.11%), GloVe (14.12%), and FastText (29.78%) embeddings

NBA Player Efficiency Optimization | Python, K Means, Pandas

Apr. 2023

- Collaborated with 4 member team to create custom metrics from 21 features, integrated shot and defender context
- Demonstrated 58.09% Rank Biased Overlap with ESPN rankings using POE scores

Handwritten Math Equation Recognition | Python, CNN, LSTM, Apps Script

May. 2022

- Led 3 person team to develop CNN-LSTM model; generated 137K+ samples via automated pipeline
- Achieved 90.78% validation accuracy with preprocessing, noise reduction, and deep model tuning

Personal Projects

GrocerIQ - Smart Grocery Planner | React, Express, Node.js, MongoDB, JavaScript, Clerk, LLM

May 2025

- Designed a MERN app with Clerk auth to guide users through personalized diet, budget, and cooking setup
- Implemented AI to generate shopping lists, optimize restocking, and reduce food waste with smart recommendations

LLM Based PDF Query Assistant | Python, StreamLit, NLP, HuggingFace, FAISS

Jan. 2024

- Developed context aware chatbot with PDF ingestion, embedding via Instruct models, fast similarity using FAISS
- Implemented Flan-T5-XXL with vector retrieval and memory, attained 83% response accuracy on semantic queries

Archive - Notes App | Java, Android, Firebase

Sept. 2023

- Devised real time android app for note taking using firebase; supported secure logins for 50+ users
- Managed and synced 100+ notes, improved UI with RecyclerView, and enabled media embedding

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Developer Tools: CI/CD, Docker, Git, Bash, Vim, Linux, VS Code, Eclipse, Android Studio

Technologies: MongoDB, Express, React, Node.js, Flask, AWS, GCP, Firebase, PostgreSQL, Agile, ML, AI

Leadership / Extracurricular

Google DSC, SIES GST

ML & AI Coordinator

July 2021 – May 2022

SIES Graduate School of Technology

- Conducted ML/AI workshops for 200+ students; mentored 50+ student in '30 Days of Google Cloud 2021'
- Coded FAQ chatbot with 7 member team, and enhanced query resolution on SIES GDSC website