NAVEEN BATHINI

Software Engineer Intern

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Linkedin | GitHub | LeetCode

EDUCATION

Madanapalle institute of technology and science   Madanapalle
Computer Science and Engineering B.Tech   August 2023 - August 2027
CGPA: 8.9

EXPERIENCE

Google cloud with L4G | Generative AI   Remote | May 2025 - july 2025
- Built and deployed **Generative AI** solutions on **Google Cloud** using **Vertex AI, LLMs, and enterprise-scale ML workflows**, improving automation and response accuracy.
- Implemented Prompt Engineering and **Retrieval-Augmented Generation**(RAG)techniques to enhance model performance for summarization and Q&A tasks.
- Delivered proof-of-concept demos and technical insights to **cross-functional** teams, accelerating **Generative AI adoption** and solution implementation.

NIT-Puducherry | Machine learning intern   TamilNadu,Puducherry | June 2025 - August 2025
Machine Learning Intern
- Trained and **fine-tuned** a large language model **(LLM)** to build a domain-specific **medical chatbot.**
- Used supervised fine-tuning **(LoRA, SFT)** on curated medical Q&A datasets to improve **reasoning accuracy**.
- Performed end-to-end data preprocessing, prompt formatting, and model evaluation using **BLEU, METEOR**, and logic-based scoring.

Zidio Development | Data science intern   Remote | Oct 2024 - Nov 2024
- Built an end-to-end **Emotion Recognition System** using **Machine Learning & Deep Learning** techniques to **classify human emotions from facial expressions.**
- Developed and trained models using **CNN-based architectures**, applying feature engineering, **hyperparameter tuning**, and evaluation metrics to optimize performance.
- Applied **real-time inference** and visualization to detect emotions through **live video input** enhancing user interaction and practical usability.

SKILLS

Programming Languages:	Java, Python, Html, Css, Java script, DSA
Libraries/Frameworks:	Javascript, Scikit-learn, Matplotlib, TensorFlow
Tools / Platforms:	Git, VS code, Power BI, Google Colab, Tableau, Excel, Git hub
Databases:	SQL, SQLite, MySQL, PostgreSQL, MongoDB

PROJECTS / OPEN-SOURCE

Face detection Attendance | Link   *Python,face_recognition*
- Built an **AI-driven Smart Attendance System** using **Python, Flask, Firebase Firestore**, and **Face Recognition**, enabling automated multi-face detection with **9698%** accuracy and <2s processing latent.
- Implemented real-time **cloud attendance** tracking with Firestore atomic nested field updates, improving automation and eliminating manual entry errors.
- **Optimized face recognition efficiency using 128-D encodings**, vectorized NumPy distance comparison, and **Google Drive caching**, enhancing scalability and supporting batch recognition.

deepseek-medical-chatbot | Link   *DeepSeek LLM, Unsloth, LoRA, SFTTrainer, LangChain,*
- Built a **clinical QA model fine-tuned** on medical chain-of-thought **(CoT)** data using **Unsloth** and **DeepSeek-R1-Distill-Llama-8B.**
- Applied **LoRA** and **SFTTrainer** to enable **lightweight training** and efficient deployment.
- Designed to produce **interpretable, step-by-step reasoning** for complex medical queries.

- Improved clinical answer accuracy by combining **structured reasoning** with **compact model design.**

Snap to Sustainability | Link   *TypeScript, Python, CSS, HTML, JavaScript*
- Enables users to **report waste** and garbage in **local surroundings** through a user-friendly platform.
- Encourages community-driven cleanup efforts by **raising awareness** and promoting collectivity.
- Implements a **reward system** to recognize and incentivize active contributors to environmental clean and Aims to build a **sustainable and cleaner community** by combining technology with civic participation.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - **Oracle University**
- Data Analysis Certification - **Google**
- Python Programming Certification - **IBM**
- Generative AI - **ISRO**
- Java Programming Certification - **SkillUp**

HONORS & AWARDS

- Secured 1st Prize in the Technical Seminar competition conducted by Viswam College
- Won 1st Prize for creating and presenting a dashboard using Power BI
- Achieved 1st Prize in the Idea Presentation competition conducted by MITS.
- Reached Semi-Finals in the Smart India Hackathon at the college level.
- Participated in the Impact-X Hackathon organized by MITS College and advanced to the semi-finals