Ananya Mahishi

ananyamahishi.github.io

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EDUCATION

PES University   Bangalore,India
Bachelor of Technology in Computer Science and Engineering   *Grad2025*
Coursework: Machine Intelligence, Topics in Deep Learning, Data Analytics, Big Data, Statistics for Data Science,Generic Programming with C++, Cloud Computing, Object Oriented Analysis & Design, Compiler Design, Data structures and its Applications, Design and Analysis of Algorithms, Computer Networks, Operating Systems, Web Technologies

CURRENTLY WORKING ON

Lo-Fi Music Generation from Everyday Noise
 Processes raw audio signals of noise, extracts key features and generates low fidelity style music from it.
QuickPick https://www.quickpick.co.in/
Simplifying campus dining by integrating meal ordering to payment on app with vendor interaction through a web based vendor interface with meal scheduling and efficient queue optimization.
GenAI for Targeted Car Advertisement Campaign Creation
Utilizing Gemini API and Python to curate datasets and fine-tune various LLM models for generating tailored ad campaigns.

SKILLS

Programming Languages: Python , C/C++ , R
Machine Learning/ AI : PyTorch, Keras, Tensorflow, HuggingFace, OpenAI API, Gemini API, Langchain, pandas, numpy, scikit-learn, matplotlib, seaborne, vector database - chromadb
Cloud/Web: React, Next, MongoDB, SQL, Firebase, Git
Image processing : OpenCV, Pillow

PROJECTS

GlamBot   *PyTorch,OpenCV,FACER,GeminiAPI,Pillow,Flask,Beautifulsoup*
AI-Based Color Analysis and Outfit Recommendation System

QuickPick   *React,Nodejs,javascript,flutter*
Meal ordering and scheduling app with vendor interface

Refining AI-Generated Images by Correcting Text Hallucinations   *Yolov8,EasyOCR,GeminiAPI*
A three part pipeline model for detection and correction of hallucinated text in AI generated images

ThreadingAPI   *C++,pthread*
A fully functional threading api/library in C++ using pthreads

College Parking Lot DBMS   *MySQL,streamlit*
Manage parking records, payments, and access control for the college parking lot

Furniturely   *MongoDB,Expressjs,Reactjs,HTML*
Ecommerce furniture website

Student Attendance Management System   *OpenCV,Python*
Attendance marking and management system with graph visualization using facial recognition

ACCOMPLISHMENTS

- Top 20 all India in Cisco Thingqbator Cohort-6
- 1st place at Kodikon hackathon held by Embrione club of PES University
- Featured in CIE Newsletter of PES University - QuickPick
- Recipient of athena Scholars 2022 Scholarship
- Global nominee for NASA Space apps challenge 2022.

EXPERIENCE

SimpliAI   Bangalore,India   *Summer 2024*
AI Engineer Intern
- Built and designed testing framework and a novel metric - Simscore to analyze the similarity between conversations with a language model (LLM) and detect LLM drift - 85% accuracy
- Optimized a RAG framework by 50% with langchain to achieve prompt compression and minimized latency.

PES University   Bangalore,India   *Fall 2023*
Teaching Assistant
Statistics for Data Science – Designed and conducted the annual datathon for the course. Created and evaluated slides and assignments in R/Python on visualization, cleaning, model building

Being Social   Bangalore,India   *Dec 2022-Aug 2023*
Volunteer
- Planned activities, developed a curriculum and evaluation method for children in shelter homes to facilitate good mental health and better communication in English
- Composed short, educational narratives on menstrual health and hygiene

CERTIFICATIONS

Hackerrank Problem Solving (Intermediate) Certificate, AWS Educate Getting Started with Databases, AWS Educate Getting Started with Storage, AWS Educate Getting Started with Serverless, AWS Educate Getting Started with Networking, AWS Educate Getting Started with Compute, LFD103: A Beginner's Guide to Linux Kernel Development