Ananya Mahishi

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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, Large Language Models, 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

SKILLS

Programming Languages: Python , Generics and OOPS with C++, SQL, OOPS with Java, C, R

Machine Learning/ AI : PyTorch, Keras, Tensorflow, HuggingFace, OpenAI API, Gemini API, Langchain, pandas, numpy, scikit-learn, matplotlib, seaborne, vector database - chromadb, Diffusers

Cloud/Web: React, Next, MongoDB, Firebase, Git

Image processing : OpenCV, Pillow

PROJECTS

GlamBot   *PyTorch, OpenCV, FACER, GeminiAPI, Pillow, Flask, Beautifulsoup*

AI-Based Color Analysis and Outfit Recommendation System

QuickPick *https://www.quickpick.co.in/ -* **Co Founder, Product Manager, Developer**   *React, Nodejs, javascript, flutter*

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.

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

Bidirectional Sheets2SQL   *Python, MySQL, gspread*

A solution that enables real-time synchronization of data between Google Sheets and MySQL database.

Music Generation From Everyday Noise   *Huggingface, Diffusers, Python, Pillow, Librosa*

A project on generating music from raw noise using spectrograms, a modified Stable Diffusion pipeline, and prompt-driven

style conditioning with mask-based diffusion for seamless integration of noise characteristics.

Driving Innovation: Creating a Dataset for Automotive Ad Campaign Analysis   *Python, GeminiAPI, Pandas, BeautifulSoup, Requests*

Developed a generative AI-based pipeline to create a comprehensive dataset of automotive ad campaigns, enabling

efficient campaign generation and performance analysis.

ACCOMPLISHMENTS

- Top 20 all India in Cisco Thingqbator Cohort-6
- Top 20 projects of Capstone Fair Avishkar 2024 at PES University
- 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.
- Worked with TTS

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