

Jahnavi Bobba

janubobba1@gmail.com | 8618484763 | Whitefield, Bengaluru, Karnataka, India

[LINKEDIN](#) | [GITHUB](#)

EDUCATION

PES UNIVERSITY

COMPUTER SCIENCE BACHELORS

CGPA: 8.66

September 2022 - May 2026

Bengaluru, India

SRI CHAITANYA PU COLLEGE

SCIENCE(PHYSICS, CHEMISTRY, MATHEMATICS, COMPUTER SCIENCE) CLASS XII

Percentage: 92.4%

July 2020 - July 2022

Bengaluru, India

DELHI PUBLIC SCHOOL, WHITEFIELD

PHYSICS, CHEMISTRY, SOCIAL SCIENCE, MATHEMATICS CLASS X

Percentage: 94%

july 2019 - july 2020

Bengaluru, India

EXPERIENCE

CENTER FOR DATA SCIENCE AND APPLIED MACHINE LEARNING, PES UNIVERSITY | SUMMER

INTERN

Bengaluru, India | June 2024 – July 2024

Reduced hallucinations in Mistral LLM using advanced prompt engineering techniques

Developed and implemented Chain of Verification prompting for factual accuracy and Chain of Thought to enhance step by step reasoning

Designed a hybrid Chain of Thought + Chain of Verification approach to further reduce hallucination rates

Improved model reliability and consistency across multiple evaluation tasks

SKILLS

PROGRAMMING LANGUAGES

C++, Python, C, JavaScript, Java

LIBRARIES/FRAWORKS

OpenCV, Scikit-learn, Node JS, HTML, CSS, Pandas, NumPy, TensorFlow, PyTorch, React.js, HuggingFace, Keras, NLTK, FAISS

TOOLS / PLATFORMS

Github, Kaggle, Google Colab, HuggingFace

DATABASES

MongoDB, SQL

PROJECTS / OPEN-SOURCE

FINSAGE - PERSONAL FINANCE APPLICATION

Python, JavaScript, PostgreSQL

Developed FinSage, a full-stack personal finance application using React.js (frontend) and FastAPI (backend) with PostgreSQL and Docker, integrating AI-powered LLMs to generate personalized financial insights, summarize spending patterns, and provide smart budgeting recommendations.

YET ANOTHER DISTRIBUTED TASK QUEUE

Python, kafka, redis,

Designed and implemented a Kafka-based Distributed Task Queue for efficient task management across multiple worker nodes. Developed a fault-tolerant system with task tracking, load balancing, and result storage using Kafka and Redis. Ensured scalability, worker health monitoring, and automatic task reassignment in case of failures.

PDF CHATBOT

Python

Developed a multimodal RAG-based PDF question-answering system using Llama, CLIP, BLIP, FAISS, and BM25. Enabled both text and image-based queries with enhanced visual reasoning capabilities, addressing limitations of standard LLMs like ChatGPT in understanding complex images within documents.

STUDENT SKILL TRACKING SYSTEM

Java, Spring Boot, MySQL

Built a full-stack web application using Spring Boot for student skill training management. Developed user registration, login, and role-based access control (admin/user). Implemented course and event creation, subscription workflows, and dynamic profile pages. Integrated MVC controllers with Thymeleaf for clean UI interaction.

AI IMAGE DETECTOR

Python

Developed and trained three GANs DCGAN, StyleGAN, and IC-GAN using Cypher, for detecting fake images. Fine-tuned a ResNet18 model on the CiFake dataset (real vs. fake images) and demonstrated that the ensemble of the GANs outperformed the ResNet18 model in precision.

FTP

Python

This project is a FTP an application enabling seamless file exchange via secure TCP connections between client and server, supporting concurrent connections for efficient collaboration. Beyond basic transfer functions, users can create directories, delete and download files, and manage data comprehensively. It also has SSL certification ensuring an added layer of security, safeguarding sensitive information during transmission. Overall, it offers a versatile and secure platform for efficient file management and collaboration

ALUMNI MANAGEMENT AND EVENT PORTAL

Flask, MySQL

Built a Flask-based alumni and student portal with MySQL backend, supporting user authentication, profile management, event registration, and admin dashboards. Implemented role-based login/signup, group membership tracking, and high-demand event analytics using SQL subqueries and joins. Integrated secure password handling and session management for user access control.

SHOPPING WEBSITE

JavaScript, HTML, MongoDB, NodeJS

This website made using React, NodeJS and MongoDB allows users to shop for various clothing items. Its efficient and allows users to browse through new trendy catalogue of clothing items and purchasing it

CERTIFICATIONS

- Intro to Deep Learning - **KAGGLE**
- Computer Vision - **KAGGLE**
- Feature Engineering - **KAGGLE**

HONORS & AWARDS

- Was among the top 10 teams of a datathon conducted by PES University
- Awarded the CNR Scholarship for academic excellence, given to the top 20% of the batch.