ANANNYA CHAUDHARY

AI ENGINEER

Website https://anannyachaudhary.com
Contact anannya0316@gmail.com

WORK EXPERIENCE

AI Engineer | Chetto, Bangalore
August 2025- present

- Built interactive dashboards delivering KPIs derived from unstructured WhatsApp messages, enabling data-driven product and engagement decisions.
- Built agentic workflows for automated invoice extraction and audio-based order tracking, significantly reducing manual processing time.
- Developed a regression-safe evaluation framework using GPT-based semantic matching, enabling reliable experimentation and controlled feature rollouts.
- Built a simulation framework for non-technical users to test AI workflows before release, enabling safe task customization and deployment validation.

AI Intern | Chetto, Bangalore
January 2025-July 2025

- Integrated Florence-2-large into a multimodal classification pipeline to caption and analyze images/PDFs, enabling automated expense vs non-expense detection in conversational data.
- Fine-tuned BERT for expense categorization, optimizing evaluation metrics for production stability
- Resolved critical parsing and logic bugs in Prohirify, improving resume extraction accuracy and structured candidate profiling reliability.

AI/ML Intern | LetsEndorse, Bangalore
June 2024-October 2024

- Trained YOLO-v9 and YOLO-v7 segmentation model for 20-class beehive cell analysis, enabling diagnostics for remote beekeeping environments with variable image conditions.
- Built an end-to-end multimodal pipeline integrating vision models (YOLO, EfficientNetV2) with LLMs (GPT-3.5, Llama-8B Instruct) to generate context-aware reasoning from visual detections.

PUBLICATIONS

Detection of B-ALL using CNN and Deep Learning
Built an AI-assisted B-ALL detection pipeline using CNN-based transfer learning, reducing diagnostic subjectivity and enabling high-accuracy (99%) automated leukemia classification.

Diabetes prediction using Logistic Regression
Built a machine learning pipeline for early diabetes risk prediction, enabling accessible and data-driven health screening through a deployed web interface.

PROJECTS

Hybrid RAG System with Evaluation Pipeline

Built hybrid retrieval system using FAISS and dense embeddings, implemented hallucination mitigation techniques and evaluation scripts for answer faithfulness.

Inclusive ASR Model for Dysarthric Speech

Developed and evaluated ASR system tailored for dysarthric speech patterns using MFCC's; published in Springer LNNS

EDUCATION

Vishwakarma Institute of Technology, Pune| Bachelor of Technology
Artificial Intelligence and Data Science

SKILLS

Languages: Python, SQL

ML/DL: PyTorch, TensorFlow, Scikit-learn, CNNs, YOLO, EfficientNet

LLMs & NLP: LangChain, FAISS, Mistral, Llama, BERT, RAG, Prompt Engineering

Tools: Git, Azure, Streamlit, Docker, GCS