

VISHWAS YELESHWARAM

Hyderabad, Telangana

+91 9392360632

yvishwas40@gmail.com



codolio.com/profile/yvishwas40



github.com/yvishwas40

Education

Chaitanya Bharathi Institute Of Technology

B.E in Computer Science and Engineering [AIML] - CGPA - 9.59

2022 - 2026

Hyderabad, Telangana

Experience

Amazon ML Challenge

September - 2024

Machine Learning Researcher

Remote

- Engineered a scalable machine learning pipeline for structured text extraction from product images, processing over 50,000 images.
- Deployed OCR techniques, conducting comparative analysis of Tesseract OCR, Keras-OCR, and EasyOCR to identify the most efficient solution for large datasets.
- Standardized extracted text and improved accuracy by applying Regex-based parsing and correction dictionaries, increasing text normalization efficiency by 20%.
- Designed a machine learning model for entity recognition, achieving an F1-score of **0.92** on the test set.

Projects

Insurance Claim Intelligence Engine | RAG (LangChain), FAISS, spaCy, FastAPI, Docker

July 2025

- Built a full-stack insurance claim analysis engine that processes policy PDFs and returns clause-linked answers using a RAG pipeline (LangChain + Pinecone).
- Improved retrieval precision with a custom **FAISS** layer over **Pinecone** vector search.
- Extracted structured info (age, procedure, etc.) from natural language queries using **spaCy** and regex.
- Containerized the entire FastAPI application with **Docker**, enabling consistent deployment and scalable API-based inference workflows.

Evenza Event Management Platform | ReactJS, Node.js, Express.js, MongoDB, Sheets API

October 2025

- Developed a scalable **full-stack event management platform** supporting event creation, attendee registration, payments, check-ins, and real-time communication workflows.
- Designed and implemented the backend using **Node.js** and **Express.js** with RESTful APIs, **JWT-based authentication**, and role-based access control for organizers and attendees.
- Built a responsive **ReactJS frontend** featuring admin dashboards, attendee views, live messaging, and QR/manual check-in systems for seamless event operations.
- Integrated **MongoDB** for persistent data management and synchronized selective event data with external services to streamline reporting and automation.

Pravah – Smart Document Verification System | Computer Vision, OCR, LLM, FastAPI

October 2024

- Architected and maintained an AI-powered document verification platform, integrating **Computer Vision** and **OCR** (**Tesseract**, **EasyOCR**) with RESTful APIs, reducing manual verification time by **60%**, including documenting system workflows for future development.
- Designed a scalable **system architecture** using **Firebase (secure storage)** and **FastAPI (backend APIs)**, ensuring fault-tolerant and real-time validation workflows.
- Implemented a **deep learning anomaly detection model** to flag tampered documents with **95% accuracy**, improving reliability and audit readiness.

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL

Core CS Competencies: Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Networks

Web & API Technologies: RESTful APIs, HTML, CSS, Bootstrap, ReactJS, Node.js, FastAPI

Machine Learning & AI: Machine Learning, Deep Learning, Natural Language Processing (NLP),

Developer Tools: Git/GitHub, VS Code, Streamlit

Achievements & Extracurricular

Best Innovation Project Award 2025 by CSI for developing an AI-powered document verification system.

YUVA-2024 – Best Young Leader Award by NSS, CBIT for impactful community initiatives.

Global Rank 681 in CodeChef Starters 131 and solved 500+ problems across Leetcode & Codechef

Vice President – Ramanujan Maths Club, CBIT