

KAUSHIK SAI MAMIDI

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Education

Chaitanya Bharathi Institute of Technology	Nov. 2022 - Aug. 2026
B.E in Computer Science and Engineering	9.48 CGPA
FIITJEE	Oct. 2020 - Oct. 2022
Senior Secondary (Mathematics, Physics and Chemistry)	9.78 CGPA
Genesis International School	2020
CBSE	9.32 CGPA

Work Experience

Fox Trading	Aug 2024– Sep 2024
Roles: Machine Learning with Python-Microsoft	Remote
<ul style="list-style-type: none">Conducted detailed analysis on a Lead Score Case Study and Assigned a lead score to each of the leads such that the customers with higher lead score have a higher conversion chance and the customers with lower lead score have a lower conversion chance on dataset close to 10000 records.Performed EDA , VIF Generalized Linear model improving to 93% accuracy .	
Languify	Aug 2024 – Sep 2024
Roles:Artificial Intelligence with Python- Microsoft	Remote
<ul style="list-style-type: none">Built a Vision Transformer for CIFAR-10/CIFAR-100 image classification.The custom model includes patch embedding ,positional embedding ,transformer encoder , utilizing mechanisms such as multi-head-attention,multi-layer-perceptron with 88% accuracy for Top 5 Classes	

Projects

Landmark Detection — VGG19, CNN, Google Landmarks Dataset, Python
<ul style="list-style-type: none">Developed a landmark detection system capable of recognizing locations under varying environmental conditions.Utilized VGG19 CNN architecture and fine-tuned it using the Google Landmarks dataset.Curated and processed Google landmarks dataset with over 5000 unique landmarks for training
AgroPlanner — Random Forest, NASA/ICRISAT Data, Machine Learning
<ul style="list-style-type: none">Developed a crop yield prediction model with an R² score of 0.902 using Random Forest regressor.Curated a dataset spanning 26 years (53,000+ records) from NASA and ICRISAT sources.Design a location-aware farming assistant with financial planning for agricultural decision-making.
3D PDF Visualizer — React, Flask, TF-IDF, Clustering, 3D Visualization
<ul style="list-style-type: none">Created an interactive PDF visualization system using 3D knowledge graphs based on clustering.Implemented a RAG-based retrieval system to enable contextual navigation of document chunks.Handled large PDFs (150+ pages) efficiently, supporting local AI-based chat for enhanced privacy.
PDF Q&A System — FastAPI, PostgreSQL, Google Generative AI, Langchain, Google Cloud Storage
<ul style="list-style-type: none">Built a backend to upload, process, and extract text from PDFs with cloud integration.Enabled real-time Q&A using WebSocket and Google Generative AI.Designed rate-limiting (5ms) and robust data handling with PostgreSQL.

Technical Skills

Languages: Python, Java
AI/ML: Keras, TensorFlow, SciKit-Learn, PIL, cv2
Data Science: Numpy, Pandas, Matplotlib, Beautiful-Soup, Selenium
Web Development: HTML, CSS, JavaScript, React, MongoDB, Node, Express, Firebase
Concepts: Data Structures, Algorithms, OOP
Tools: GitHub, VSCode

Achievements

- Selected among 20000+ applicants for **Amazon ML Summer School 2024**.
- Presented a research paper on **LegalMind** at an event held by CBIT.
- Panel Winner** of ”Hacktoberfest” (COSC club 2024) consisting of 270+ teams.

Certifications

Web Development: Internshala
Deep Learning: IITKGP (NPTEL)
AIML Training: Coincent
Data Science Foundation: Infosys Springboard
AI-900 Certified: Microsoft Azure AI Fundamentals
Google Cloud Certifications: Google Gen AI, Google Cloud Foundation (GDSC)
Security: Cybersecurity Fundamentals (ISC2, Inflow Technologies)

Passion

- Solved over 250 problems in Leetcode.
- Research: Legal Chatbot ,Crop Yield Prediction using NASA ,data with over 53000 rows, 0.90 R squared
- Hackathons: Design solutions to solve real life problems,participated over 4 hackathons.