Nihaal Anupoju

AI ENGINEER

Driven and innovative Computer Science graduate with expertise in machine learning, deep learning, NLP, and computer vision. Passionate about building data-driven solutions that enhance efficiency and user experiences. Seeking opportunities as an AI/ML Engineer to tackle complex challenges with fresh ideas and creative problem-solving.

nihaal.a084@gmail.com



7842 704084



Hyderabad, India



in linkedin.com/in/nihaal-a-o84

EDUCATION

B.TECH. in Computer Science Vellore Institute of Technology

09/2021 - 05/2025

PROJECTS

Handwritten Text to Digital Converter (07/2024 - 11/2024)

• A hybrid model that uses a pretrained Resnet model for feature extraction and transformer for interpreting the sequence of extracted features and generating a structured text output.

Finger-Specific Fingerprint Generation Using GAN (07/2024 - 11/2024)

generates high-quality synthetic fingerprints for specific fingers, such as the right index or left thumb

Gamer AI (01/2024 - 05/2024)

An advanced gaming agent using an A3C model with LSTM, designed for sequential decision-making.

EXPERIENCE

Al Engineer Intern

Deep Algorithms Solutions

12/2024 - 04/2025

Hyderabad

Achievements/Tasks

• Collaborated with the Research and Development team to design and implement innovative AI solutions for cybersecurity challenges by leveraging Vision-Language Models and Large Language Models.

Al Engineer

Artificial Intelligence Club VIT

04/2024 - 11/2024 Achievements/Tasks CHENNAI

 Contributed to organizing and participating in workshops and hackathons, enhancing technical knowledge and team collaboration. Collaborated with the team to design and develop an Al-powered chatbot for the club, utilizing RAG to improve member engagement and streamline communication.

Al Research Intern

CSIR Fourth Paradigm Institute - India

09/2023 - 12/2023

RANGALORE

Achievements/Tasks

• An in-depth research project on Differentially Private Hybrid Federated and Centralized Learning with BigGAN, enhancing privacy preservation in a distributed learning environment. By seamlessly integrating federated and centralized learning approaches.

Machine Learning Engineer

Data Science Club VIT

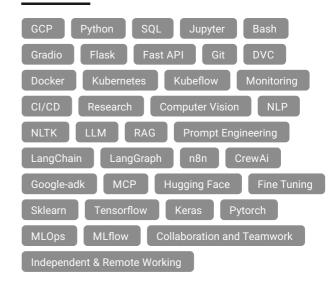
02/2023 - 09/2023

CHENNAI

Achievements/Tasks

 Led a project deploying real-time image enhancement app with FLASK, that utilizes multiple Autoencoder models specifically trained for denoising, deblurring, and coloring black-and-white images.

SKILLS



PUBLICATIONS

Frontiers Neuroinformatics journal Volume 18 - 2024 Enhancing brain tumor detection in MRI with a rotation invariant Vision Transformer (06/2024)

Evaluation on the Brain Tumor MRI Dataset from Kaggle demonstrates RViT's superior performance with sensitivity (1.0), specificity (0.975), F1-score (0.984), and an overall accuracy of 0.986.

https://doi.org/10.3389/fninf.2024.1414925

CERTIFICATES

IBM Generative AI Engineering Professional Certificate

IBM Deep Learning with PyTorch, Keras and Tensorflow **Professional Certificate**

Edureka Certified MLOps Certification

Oracle Cloud Infrastructure Generative AI Professional

Databricks Accredited Generative AI Fundamentals Certified by Google Cloud

Deep Learning for Computer Vision

certified by IIT Hyderabad (NPTEL)

Data Science for Engineers certified by IIT Madras (NPTEL)

LANGUAGES

english Full Professional Proficiency hindi

Limited Working Proficiency