

# 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.

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## 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

**AI 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.

**AI Engineer**  
Artificial Intelligence Club VIT

04/2024 - 11/2024

CHENNAI

Achievements/Tasks

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

**AI Research Intern**  
CSIR Fourth Paradigm Institute - India

09/2023 - 12/2023

BANGALORE

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

GCP

Python

SQL

Jupyter

Bash

Gradio

Flask

Fast API

Git

DVC

Docker

Kubernetes

Kubeflow

Monitoring

CI/CD

Research

Computer Vision

NLP

NLTK

LLM

RAG

Prompt Engineering

LangChain

LangGraph

n8n

CrewAi

Google-adk

MCP

Hugging Face

Fine Tuning

Sklearn

Tensorflow

Keras

Pytorch

MLOps

MLflow

Collaboration and Teamwork

Independent & Remote Working

## 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