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Florina Ramchiary

EDUCATION

IIT MANDI
M.Tech CSE, 2023-25
CGPA: 6.03

NIT NAGALAND
B.Tech ECE, 2019-23
CGPA: 7.89

PIONEER ACADEMY
2017-19
68%

ST. JOHN'S SCHOOL
2017
74%

LINKS

LinkedIn:// florinaramchiary
Email:// florinaramchiary48@gmail.com
GitHub:// floramchi
LeetCode:// julied
geeksforgeeks:// florinaramchiary48

SKILLS

PROGRAMMING
C • C++ • Python • JavaScript

DATABASES
SQL • MongoDB

FRONTEND
HTML • CSS • ReactJs

BACKEND
FastAPI • Flask

ML/AI
PyTorch • Tensorflow • Scikit-learn

COURSES
Deep Learning • Advanced Data Structures and Algorithms • Machine Learning • Computer Vision

TOOLS
Git • GitHub • MATLAB • VSCode • Icarus Verilog

EXPERIENCE

UNIFIED MENTOR | Data Analyst Intern
- Developed machine learning models for predictive analysis and classification. Automated data processing pipelines, improving efficiency. Created visualizations to present findings and insights to stakeholders.
- Programming: Python, SQL, R.
- Tools: VsCode

PROJECTS

RETRIEVAL-AUGMENTED GENERATION (RAG) MODEL FOR QA BOT
- Developed a RAG-based QA system combining vector retrieval (Pinecone) and generative AI (Cohere API) to answer domain-specific queries accurately.
- Technologies Used: Python, Pinecone, Cohere API, Pandas, Google Colab.

GAIT RECOGNITION
- Developed a gaitrecognition system to identify individuals through analysis of their different walking patterns.
- Got an accuracy of 74% using 3D CNN.

LUNG CANCER DETECTION | NSCLC DATASET
- An automated system for detecting and segmenting lung tumors from CT scans using a U-Net deep learning architecture.
- Achieved high accuracy with 97% Sensitivity, 99% Specificity, and an AUC of 98%.
- Improved segmentation performance with a Dice Similarity Coefficient (DSC) of 0.87, ensuring precise tumor detection.
- Libraries Used: pydicom, matplotlib.pyplo, numpy, skimage

EMPLOYEE MANAGEMENT SYSTEM
- Built a full-stack application using React.js and FastAPI to manage employee records.
- Designed a SQL database for efficient storage and retrieval of employee details.
- Features: Add, update, delete, search, and filter employee data.
- Tools: React.Js, FastAPI, SQLite.

EARLY STOPPING DENOISING DIFFUSION PROBABILISTIC MODELS(ES-DDPM)
- Implementing the Early Stopped Denoising Diffusion Probabilistic Models (ES-DDPM)by combining a pre-trained generative model, GAN with a DDPM for improved image generation efficiency.
- FID Score - 12.89

ACHIEVEMENTS

TEAM LEAD | YAMAHA HACKATHON
- Led a team to develop a model optimization solution and design a user-friendly UI/UX for the hackathon project.
- Technologies: Python, ReactJs, Flask.

CERTIFICATIONS

- Python for Data Science and Machine Learning
- Google for Data Analytics