Anirudh Pradhan

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EXPERIENCE

Malviya National Institute of Technology, Jaipur
May 2024 - August 2024
Research Internship

Worked under **Prof. Deepak Ranjan Naik**: to enhance a Glaucoma detection model.

- Developed a convolutional neural network over **ResNet** on LAG (Large-scale Attention-based Glaucoma) dataset.
- Achieved a **2% improvement** over the previous state-of-the-art model by focusing on the **region of interest (ROI)**.

EDUCATION

Bachelors in Computer Science and Engineering (B.Tech), IIIT Bhubaneswar
2022 - 2026
CGPA: 8.45 (post 4th Semester)
Bhubaneswar

Intermediate, D.A.V. Public School Unit 8, Bhubaneswar
2020 - 2022
Percentage: 91%
Bhubaneswar

PROJECTS

illaaJ- Your AI Assistant (Prompt Engineering, Flask, Bootstrap)
June 2024
AI Replacing DOCTORS

- Built an **AI-powered** doctor assistant using Flask and Python, allowing 5,000+ users to detect diseases with a **92% diagnostic accuracy** rate, significantly reducing the time to receive initial diagnoses by 60%.
- Used a Flask-based application **utilizing** a **JSON**-format relational database to manage & analyze over 100,000 symptoms.
- Engineered **effective prompts** using the **Gemini API** to retrieve personalized home remedies, resulting in a 30% increase in the relevance and accuracy of recommendations for detected diseases.

Watchful Eye (CNN, Fine-Tuning, Transfer Learning, TensorFlow, Flask)
March 2022
HackNITR Top 8

- Developed and deployed an intelligence system, enhancing **security in online exams** and remote interviews, for over 10,000 users, ensuring a **cheat-free environment** with a 97% success rate in preventing cheating incidents.
- Developed a **Computer Vision**-based **real-time** monitoring and alert system, processing 500+ images per second to instantly detect suspicious behaviour in exams and interviews.
- Achieved 95% accuracy by fine-tuning the **VGG16** model by **adjusting hyper parameters** and categorizing visual data.

PUBLICATIONS

Intelligent Bone Fracture Recognition Framework: Convolutional Neural Network (CNN)
November 2024
Available on IEEE Xplore

Harnessed the power of hybrid deep learning, combining CNNs with an improved algorithm for bone fracture diagnosis, achieving superior performance metrics with an F1 score of 99% and recall of 98%. Optimized computation time and accuracy in fracture detection using grayscale transformations, demonstrating innovation in clinical X-ray analysis.

SKILLS & INTERESTS

Languages: C, C++, Python, Java, HTML, CSS
Libraries and Frameworks: Flask, Tensorflow, Scikit-Learn, Numpy, Pandas, OpenCV, Docker & Kubernatives
Tools & Technologies: Git & GitHub, Deep Learning (CNN & NLP), UI/UX, GenAI & Prompt Engineering

RELEVANT COURSEWORK

Data Structures and Algorithms, Object-Oriented Programming, DBMS, Operating System, Computer Network

ACHIEVEMENTS

D3 Hackathon Finalist By GFG

HackNITR 5.0 - Among the Top 8 teams

CodeChef (Max. Rating of 1458) ↗

- Secured a 1473 top 6% rank in the Starters 130 weekly contest out of 28k participants.

Solved 220+ DSA questions on Leetcode ↗

VOLUNTEERING

SECRETARY - Entrepreneurship Cell, IIIT Bhubaneswar