

Anirudh Pradhan

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EXPERIENCE

Karya- AI Intern (Language Technology)	April 2025 - Present
<ul style="list-style-type: none">Designed an end-to-end pipeline for building high-quality multilingual corpus for high-population, low-resource languages, integrating speaker diarization, transcription, and task release on our platform.Led initiatives in data processing pipelines such as PII removal, contributing over 100+ hours of clean, ethically sourced audio data across Indic languages and integrating them into the Language Server.These datasets power downstream tasks like TTS (Test-to-Speech) supporting AI research in collaboration with institutions like Nanterre University.	
Malviya National Institute of Technology, Jaipur- Research Intern	May 2024 - August 2024
<ul style="list-style-type: none">Worked with Prof. Deepak Ranjan Naik to enhance a Glaucoma detection model.Developed an attention-based CBAM architecture on the LAG (Large-scale Attention-based Glaucoma) dataset for improved feature representation.Achieved a 2% improvement over the previous state-of-the-art model by emphasizing the region of interest (ROI).	

EDUCATION

Bachelors in Computer Science and Engineering (B.Tech), IIIT Bhubaneswar	2022 - 2026
CGPA: 8.54 (post 6th Semester)	Bhubaneswar
Intermediate, D.A.V. Public School Unit 8, Bhubaneswar	2020 - 2022
Percentage: 91%	Bhubaneswar

PROJECTS

illaaJ- Your AI Assistant (Prompt Engineering, AI Agent, Flask)- GitHub 	June 2024
<i>AI Replacing DOCTORS</i>	
<ul style="list-style-type: none">Developed an AI-driven medical agent using Flask and Python that autonomously interacts with users to detect diseases, achieving 92% diagnostic accuracy across 5,000+ users and cutting initial diagnosis time by 60%.Architected a structured knowledge base using a JSON-based symptom-disease engine, giving access to real-time analysis of 100,000+ symptom mappings to deliver context-aware assessments.Domain-specific prompts integrated with the Gemini, enabling agent to deliver personalized, non-prescriptive remedies.	


RESEARCH PUBLICATIONS

Glaucoma Detection Using CBAM for ROI-Focused Fundus Image Analysis	May 2025
<i>Available on IEEE Xplore</i>	
<ul style="list-style-type: none">Proposed a novel architecture that leverages Convolutional Block Attention Modules (CBAM) to improve region-of-interest (ROI) focus in retinal fundus images, enhancing model sensitivity to glaucoma-specific features.Achieved 95.3% accuracy, reducing false negatives to 15 and demonstrating strong clinical reliability.	
Intelligent Bone Fracture Recognition Framework: Convolutional Neural Network (CNN)	November 2024
<i>Available on IEEE Xplore</i>	
<ul style="list-style-type: none">Harnessed hybrid deep learning by combining CNNs with advanced grayscale transformation techniques for robust bone fracture diagnosis in clinical X-rays.Attained superior performance metrics with an F1-score of 99% and recall of 98%, significantly reducing diagnostic error while optimizing computation time.	

SKILLS & INTERESTS

Languages: C, C++, Python, Java
Libraries and Frameworks: TensorFlow, Scikit-Learn, Numpy, Pandas, Open CV, LangChain, Praat, Docker, AWS SageMaker
Tools & Technologies: Git & GitHub, Hugging Face, Deep Learning, LLMs, Transformers, Gen AI & Prompt Engineering

ACHIEVEMENTS

D3 Hackathon Finalist By GeeksForGeeks
HackNITR 5.0 - Among the Top 8 teams
Solved 250+ DSA questions on Leetcode 

VOLUNTEERING

SECRETARY - Entrepreneurship Cell (E-Cell), IIIT Bhubaneswar
