

# Anirudh Pradhan

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## EXPERIENCE

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

## EDUCATION

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

## PROJECTS

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

## RESEARCH PUBLICATIONS

<b>Glaucoma Detection Using CBAM for ROI-Focused Fundus Image Analysis</b>	May 2025
<i>Available on IEEE Xplore</i>	
<ul style="list-style-type: none"><li>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.</li><li>Achieved <b>95.3% accuracy</b>, reducing false negatives to 15 and demonstrating <b>strong clinical reliability</b>.</li></ul>	
<b>Intelligent Bone Fracture Recognition Framework: Convolutional Neural Network (CNN)</b>	November 2024
<i>Available on IEEE Xplore</i>	
<ul style="list-style-type: none"><li>Harnessed hybrid deep learning by combining CNNs with advanced grayscale transformation techniques for robust bone fracture diagnosis in clinical X-rays.</li><li>Attained superior performance metrics with an <b>F1-score of 99%</b> and <b>recall of 98%</b>, significantly reducing diagnostic error while optimizing computation time.</li></ul>	

## SKILLS & INTERESTS

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

## ACHIEVEMENTS

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

## VOLUNTEERING

<b>SECRETARY</b> - Entrepreneurship Cell (E-Cell), IIIT Bhubaneswar
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