

Anurag Kumar Jha

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Experienc

Junior AI/ML Developer

October 2024 – Present

NorthStar Impact Solution

- Joining NIS as an ML intern initially, i fully transformed the Existing Legacy Company CodeBase by shifting it to a more robust and accurate RAG framework using Open-Source models especially for Classified Financial Statements.
- After few months, got promoted to Junior AI/ML Developer Role, where now i am working on Deploying this RAG framework to fully functional application for Company's Clients so that they can do ESG Reporting via NIS Alpha.

AI Developer Intern

July 2024 – September 2024

Pinkmoon AI

Experienc Letter

- Led the development of an AI-powered web tool with RAG capabilities, automating customs processes and improving filling of important Custom Documents on ICEGATE portal via Flask & LLM integration by over 94%.
- Enhanced user experience by optimizing the interface and conducted rigorous testing, using frameworks such as AWS EC2 & Amazon RDS for Backend deployments and achieving a 95% reliability rate for end-to-end system performance.

Technical Skills

Programming : Python, C, Java, DSA, OOPS, DBMS

Machine Learning : Mathematics and Statistics, Data Analysis, Deep Learning, CNN, Computer Vision, LLM

Libraries: Numpy, Pandas, Seaborn, Scikit-Learn, TensorFlow, Keras, Pytorch, NLTK, OpenCV, moviepy

ML Deployment: Streamlit, Gradio, tkinter

Web Development: HTML, CSS

Projects

Custom YoloV9 room-cleanliness-detector | [GitHub](#) | [App](#)

- Developed an advanced object detection system to assist in maintaining room cleanliness using a custom trained YoloV9 model.
- Integrated an intuitive web interface powered by Gradio, enabling users to easily upload images and adjust detection parameters, demonstrating proficiency in user interface design.
- Achieved over 95% accuracy in detecting objects such as clothes and trash, providing visual feedback through annotated bounding boxes for effective room organization. .

YouTube Video AI Assistant | [GitHub](#) | [App](#)

- Developed a Gradio-based web application that leverages Google Generative AI and the Gemini Pro language model to answer questions about YouTube videos by analyzing their transcripts.
Achieved seamless integration of advanced AI technologies showcasing expertise in natural language processing.
- Implemented efficient text processing and FAISS-based similarity search to provide accurate and relevant responses, achieving over 90% accuracy in delivering relevant information.

Voice-Chat enabled RAG chatbot with real-time Internet access | [GitHub](#) | [App](#)

- Developed an advanced virtual assistant using Nemo for speech-to-text and Mistral-7B for text generation, achieving over 90% accuracy in real-time responses.
- Integrated DuckDuckGo Search API for dynamic, real-time information retrieval, and edge-tts for seamless text to speech conversion along with creating a user-freindly app with integration of Gradio & Hugging Face.

LaneDetectionforAutonomousVehicles|[GitHub](#)| [Accepted Research Paper](#)

- Developed computer vision system achieving over 80% accuracy in identifying lane lines using HoughLine Transformation and CannyEdge Detection opening possibilities for futuristic autonomous vehicles.
- Implemented a Tkinter-based interface for real-time side-by-side comparison of original and processed videos.

Leadership Roles and Achivemets

- DATAZOIC ADGIPS member (official Data Science society of college)
- NSS ADGIPS member (non-technical society improving social skills and volunteering work)
- Winner of Utkarsh-official cultural fest's "Project Exhibition" where 20+ teams participated

Education

Guru Gobind Singh Indraprastha University

9.4 CGPA till now

Bachelor of Technology in Artificial Intelligence and Data Science

2021 - 2025