Udhay B. Menon

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha *Sep 2022 – May 2026*
Bachelor of Technology in Computer Science Engineering
CGPA: 7.46/10
Atmiya Vidyapeeth, 10th CBSE *2020*
91%
Atmiya Vidyapeeth, 12th CBSE *2022*
84.5%

Work Experience

Blue Heron Research Partners — *Research Analyst Intern* *May 18, 2025 – July 18, 2025*
- In-depth research and data validation was performed by analyzing industry reports and ensuring the accuracy of the findings.
- Developed research-driven insights and points of view to support decision-making and identify potential business opportunities.

Skills

Programming Languages: Python, SQL, HTML, CSS, C
AI/ Gen AI: PyTorch, LLaMA, LangChain, RAG, VectorDatabases, API Integration
Libraries: FastAPI, Transformers, BERT, GPT, Pandas, NumPy, Matplotlib, Seaborn
Key Skills: Generative AI, Prompt Engineering, OOPs, DBMS, DMDW, OS

Projects

Kitchen Ingredient Detection Using YOLOv8 *Feb 2025*
Python, OpenCV, PyTorch, Ultralytics, CUDA Link
- Built a real-time object detection model for kitchen ingredients using YOLOv8.
- Created a 3000+ image dataset with mAP $\approx$ 60%.

Text Summarization using API *Aug 2025*
Python, Huggingface, BERT Link
- Built a text summarization pipeline with OpenAI API, LangChain, fine-tuning, and preprocessing for accurate output.
- Automated summarization of large documents, improving efficiency and reducing manual effort.
- Implemented data pre-processing and cleaning workflows to enhance the model.

API Testing Chatbot *Sep 2025*
Python, Gradio, Requests, OpenAI GPT Link
- A conversational tool that turns natural language into structured API requests, helping developers test endpoints quickly.
- Parse instructions into cURL/Postman-ready API calls, run live requests, and display structured responses.

Certifications

UDEMY *Jan 2025*
Python for Data Science and Machine Learning

IEEE ICEC Certificate — SRM University-AP *Oct 2024*
Presented AI safety research at the IEEE ICEC conference.