

ARPIT KUMAR GAHLOT

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EDUCATION

IIT KANPUR – M TECH, 2019-2021

IIT JODHPUR – B TECH, 2013-2017

PROFILE

Experienced AI and Machine Learning Engineer with a strong background in developing intelligent solutions and applications across various sectors. Seeking to leverage my expertise in AI development, machine learning, and Linux to contribute to innovative projects.

PROFESSIONAL EXPERIENCE

AI AND LLM ENGINEER, NEWTUPLE, PUNE – SEP 2023-PRESENT

Key skills: **Streamlit, Chainlit, Langchain, OpenAI, AWS Bedrock, Docker, FastAPI, SlackBolt, Gemini, Google Vertex, ElasticSearch, PostgreSQL**

- ❖ Developed an AI bot for Siemens ADH to query real-time aviation and baggage handling data, receiving commendation from the Siemens team.
- ❖ Created AI bots for document querying and DEI analysis using audio recordings of interviews.
- ❖ Built an AI application capable of executing SQL queries and generating live dashboards and charts dynamically. See my app here [1]

PROJECT STAFF, IIT JODHPUR, MAR 2023-AUG2023

- ❖ Implemented Multichannel Reference architecture using SDR, GNU Radio, and N3xx series USRP by ETTUS Research.
- ❖ Wrote hardware-level code in C++ and Python using UHD libraries.
- ❖ Developed a CNN algorithm for superimposed signal automatic modulation detection; paper under review in IEEE Communication Letters.[2]

L1 ASSOCIATE, KHURANA AND KHURANA, OCT 2022-FEB 2023

- ❖ Analysed and identified the novelty in AI-related inventions for patent suitability.
- ❖ Worked with leading educational institutes, including IIT Roorkee, to assist with specific patents.

PYTHON ENGINEER, ROBOCHAMPS, JUL 2022 - SEP 2022

- ❖ Developed AI-based educational modules incorporating machine vision and voice-operated actions for robotics lessons.

SKILLS

Programming Languages: **Python, C, C++17, Qt**

Deep Learning Frameworks: **TensorFlow, PyTorch, Keras, Nvidia CUDA, Rapids.ai**

Python Libraries and Tools: **NumPy, Pandas, Scikit-learn, Matplotlib, Jupyter Notebook, GNU Radio, USRP PyUHD**

Computer Vision: **OpenCV, Object Detection, Image Segmentation, YOLO**

Tools and Concepts: **Git, Kubernetes, Docker, Linux, Machine Learning, Signal Processing, Functional Programming**

[1] https://www.linkedin.com/posts/yair-burshtein-55a45724_salesforce-hubspot-salesview-activity-7153475728653590529-jzM-?utm_source=share&utm_medium=member_ios

[2] Leveraging Deep Learning for Modulation Classification in NOMA Systems: A Joint Constellation Density Grid Based Approach, Communication Letters, Manuscript CL2024-0101