

EXPERIENCE

- Nixense Vixion**, NASTP Lahore —AI Intern
July 2024 / Oct 2024
- CAID Namal**, Namal Mianwali —Research Assistant
July 2023 - October 2023
- LDS Society , Namal** Lahore —General Secretary
October 2023 - June 2024

Education

- Namal University**, Mianwali — BS Electrical Engineer
Nov 2021 - Present
- Faran Boys College**, Pir Mahal— FSc Pre-Engineering
August 2019 - October 2021

Projects

Automated Evaluation (context based) of Handwritten Assessments - Final Year Project

Developing an end-to-end OCR system using Moondream Vision-based model for accurate handwritten text recognition. Integrated LLM for context-based evaluation to enhance the overall accuracy and performance of the OCR system and will deploy on multi servers

Snake Game using Genetic Algorithm

Developed a Snake Game using a Genetic Algorithm to optimize AI gameplay, implementing fitness evaluation, selection, crossover, and mutation for improved agent performance.

GA-Based SJF Scheduling for Task Allocation in Distributed Networks

Implemented a Genetic Algorithm-based SJF scheduling system for efficient task allocation in distributed networks, optimizing load balancing and reducing task completion time.

Real and Fake Image detection

Developed an AI-based image detection system using CNN to classify and detect real-world objects. The model was trained on a diverse dataset to enhance accuracy and efficiency in recognizing and interpreting real images.

Autonomous Noise Estimation and Removal in image

Developed an autonomous system for noise estimation and removal in images using statistical analysis and adaptive filtering, enhancing image quality through dynamic denoising

SKILLS

- Computer Vision:** Object detection, Object tracking, Segmentation.
- Machine Learning:** Deep Learning, Data cleaning, transfer learning, regression, classification, quantization. Generative AI, LLMs, LLM Evaluation
- Frameworks and distributions:** Anaconda, Jupiter, scikit-learn, TensorFlow.
- Languages:** Assembly, C, C++, Python.
- Packages:** Matplotlib, NumPy, OpenCV, Pandas, LangChain, LangGraph.
- Platform:** google cloud platform, Linux, windows

SOFT SKILLS

Problem-solving, Adaptability, Time Management, Teamwork leadership, Multitasking , Pressure Handling

CERTIFICATES

- Supervised Machine Learning: Regression and Classification**
By Andrew NG Stanford | Online
- LLM Evaluation** By Comet | Online
- Introduction to Artificial Intelligence** By Harvard | Online

100 Days Of Python By Angela Yu | Online