

Muhammad Ahtasham

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology
Bachelor of Science | Artificial Intelligence
Activities: Project Topi

September 2020 – June 2024

CAREER HISTORY

Ocloud Solutions Lahore

December 2024 – Present

- Associate Software Engineer - Onsite**
- Currently undergoing training in MERN stack development (MongoDB, Express.js, React.js, Node.js).
 - Developing scalable web applications using the MERN stack (MongoDB, Express.js, React, Node.js) and GraphQL for efficient API interactions.
 - Gaining practical experience in front-end development with React.js, back-end development with Node.js and Express.js, and database management with MongoDB.
 - Contributing to projects that utilize the MERN stack, applying learned concepts in a practical environment..

ITSOLERA Pvt Ltd Islamabad

July 2024 –October 2024

- Artificial Intelligence Intern - Remote**
- Developed an **AI-powered Game Story Generator**, leveraging generative AI techniques for dynamic narrative creation.
 - Implemented a **Fake Text Detection** model using natural language processing and machine learning approaches.
 - Designed and deployed an **Attendance System** using Siamese Neural Networks to ensure robust and accurate identity matching..
 - Collaborated with cross-functional teams to address real-world challenges, delivering impactful AI solutions within deadlines.

Medtronix Systems Sahiwal

September 2024 – November 2024

- Artificial Intelligence Research Intern - Onsite**
- onducted extensive research on cutting-edge AI techniques for 3D scanning, including **NeRF (Neural Radiance Fields)**, **NeuS (Neural Surface Reconstruction)**, and **Instant Neural Graphics Primitives**.Implemented a **Fake Text Detection** model using natural language processing and machine learning approaches.
 - xplored and analyzed state-of-the-art methodologies to improve the accuracy and efficiency of AI-driven 3D modeling systems.
 - tilized **COLMAP** to extract camera parameters for accurate 3D reconstruction and modeling.
 - ollaborated with a research team to evaluate and implement experimental approaches, contributing to the development of innovative scanning solutions.
 - ocumented findings and proposed actionable solutions for AI-based 3D scanning applications.

Musketeers Tech Lahore

June 2023 – August 2023

- Artificial Intelligence Intern - Onsite**
- ontributed to multiple projects involving Machine Learning, Computer Vision, NLP, and Generative AI.
 - eveloped and fine-tuned models using the Hugging Face framework, leveraging pretrained models and training them on custom datasets.
 - ained hands-on experience with state-of-the-art technologies, including Large Language Models (LLMs) and generative AI techniques.
 - ollaborated with cross-functional teams to deliver high-quality solutions on real-world projects.
 - pplied advanced techniques in NLP for sentiment analysis, text classification, and named entity recognition.
 - tilized computer vision methods for image classification, object detection, and image segmentation tasks.

LEADERSHIP EXPERIENCE

Vice President Finance

- Managed and maintained accurate records of all financial transactions.
- Verified financial aid cases and assisted deserving students in receiving necessary support.
- Maintained an emergency fund to address medical emergencies and unforeseen financial challenges.
- Conducted a successful Ramadan Ration Drive, including fundraising and distribution of rations to those in need.
- Collaborated with the Manager of Mess Bill Aid to ensure a strategic and inclusive distribution of aid.

ACADEMIC PROJECTS

Final Year Project (FYP)

- AI-Based Alzheimer's Detection and Classification.

AI Image Generation

- Trained a pretrained model from Hugging Face on a custom dataset for an AI Image Generation project, enhancing its capabilities to generate high-quality images.

University Chatbot

- Developed a University ChatBot by web scraping data from the GIKI website, enabling it to answer questions related to my university accurately.

Hair Classification

- Created a hair classification system using deep learning techniques to accurately categorize different hair color.

Crop Disease Prediction – Neural Networks

- Implemented a Crop Disease Prediction System using neural networks to accurately identify and predict various crop diseases.

GIK Map – Python

- Developed an interactive GIK map using Python to facilitate navigation and exploration of the university campus.

Shop Inventory

- Created a shop inventory management system using HTML, CSS, and PHP as my semester project

Amazon Implementation as Shop Inventory

- Implemented an Amazon-like shop inventory system as a semester project for a Data Structures course, incorporating advanced data structures to optimize product management and user interactions.

SKILLS

- **Skills** Machine Learning, Deep Neural Networks, Computer Vision, Natural Language Processing, Data Handling using python, SE Documentation, Exploratory Data Analysis, Logic Building and Design
- **Tools** Scikit-Learn, Keras, Tensorflow, Streamlit, WordPress, Bootstrap, Oracle, Mindspore
- **Languages** Python, CPP, C, SQL/PHP, HTML, CSS, WordPress, React, Django