Engr. Muhammad Abul Hassan

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Education

Sept. 2020 – July 2024

• CGPA: 3.30, Grade A

July. 2017 – June 2019

• Grade: A

Institute of Space Technology, Islamabad

Punjab Group of Colleges,
Gujranwala

Experience

July. 2023 – Sept. 2023 NCP(AI-TeC), Islamabad

• Internship was related to Artificial Intelligence.

- Developed and implemented AI models using YOLO, TensorFlow, Keras, and VertexAi.
- Utilized data science libraries such as Pandas, Numpy, and Matplotlib for data manipulation, numerical operations, and visualization.
- Gained hands-on experience in Machine Learning and Deep Learning techniques.

Projects

Sept. 2023 – July 2024

AI-Based Aatish Detection

Sept. 2023 – July 2024

AI-Based Aatish Detection system to detect specialized classes

Using CCTV

- Developed AI-based Aatish Detection system to detect specialized classes including fire, smoke, spark, and flame; achieved 96.32 accuracy using YOLOv8.
- Tested the system with custom datasets, internet images, and real-time images.
- Designed a prototype for the Final Year Project to detect fire-related anomalies through CCTV cameras.
- Trained a model with four classes: fire, smoke, flame, and spark, using custom-labeled datasets via Roboflow.
- Created a frontend for model evaluation using Python's Streamlit library.
- Implemented Python's SMTP library to send response emails to authorized persons.

July 2024 – July 2024

- Created a tool that turns simple sketches into realistic images using AI.
- Designed and trained a deep learning model to interpret sketches and generate high-quality images.
- Developed a user-friendly interface for ease of use and integration with various applications.

July. 2023 - Sept. 2023

- Built an attendance system that uses facial recognition to mark attendance automatically.
- Implemented deep learning techniques to improve face detection accuracy and speed.
- Integrated the system with existing attendance management software.

Dec. 2023 – Jan. 2024

- Created a blog generator tool that utilizes the OpenAI API to generate blog content based on user input.
- Developed a full-screen, appealing interface using the Tkinter library.

AI-Based Sketch Generator

Smart Attendance System using Face Recognition

Blog Generator using OpenAI

• Implemented features to customize and edit the generated content.

Aug. 2023 - Sept. 2023

E-Commerce Website for Local Business

- Designed and developed an e-commerce website for a local business using WordPress and WooCommerce.
- Implemented payment gateway integration, product management, and customer support features.
- Enhanced the website's SEO to increase online visibility and sales.

Feb 2024 - March. 2024

Custom WooCommerce Store for Digital Downloads

• Created a custom WooCommerce store specifically for digital downloads products.

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• Implemented secure payment processing and instant digital product delivery.

Products

Developed a user-friendly interface to enhance the customer experience.

Skills

• Programming Languages: Java, C, C++, Python

• Web Development: HTML, CSS, JavaScript, WordPress, WooCommerce

• Machine Learning & AI: TensorFlow, Keras, PyTorch, scikit-learn

• Data Science: Pandas, NumPy, Matplotlib

• Tools & Technologies: Git, Google Colab, VS code,

• Cloud Platform : AWS, Azure, Vercel, Google cloud.

• Soft Skills: Team Collaboration, Problem Solving, Effective Communication

Certifications

March 2024 Sept. 2023 ML certificate
Data Science certificate