Muhammad Hammad

Computer vision and machine learning engineer

Experienced Computer Vision & Machine Learning Engineer with a strong track record in complex project delivery. Expertise in medical imaging, predictive maintenance & security solutions.H Proficient in Python, PyTorch, TensorFlow, & Keras for innovative contributions.

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github.com/hammadnazir10

EDUCATION

Bachelor'sin Computer Science
COMSATS University Islamabad, Lahore Campus

02/2020 - 03/2024   *3.19/4*

Courses
- Mobile App development
- Digital Image Processing
- Machine Learning
- Computer vision

FSC Pre-Eng
Punjab Group of Colleges, Bahria Town Campus

08/2019 - 09/2019   *A+*

Courses
- Physics
- Mathematics
- Chemistry
- Computer Science

Matric in Computer Science
Govt Boys High School

03/2015 - 06/2017   *A+*

Courses
- Mathematics
- Chemistry
- Physics
- Computer Science

WORK EXPERIENCE

AI Engineer Intern
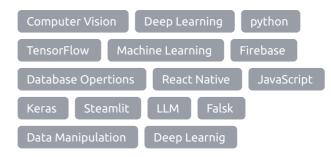Solutyics

08/2024 - Present

Experienced Machine Learning Engineer on Upwork, developing and deploying ML models. Expertise in Python, TensorFlow, PyTorch, and data preprocessing to create robust and efficient solutions. Strong problem-solving and communication skills enable effective collaboration with clients and successful delivery of results. Experienced in RAG models, LLMs, GPT API for chatbots, and working with PDFs. Proficient in using Streamlit and Flask frameworks to integrate models with web applications.

Python developer
BitBash

04/2024 - 06/2024

python developer at BitBash developing cutting- edge algorithms using selenium for automation . Consistently delivers high-quality results with a deep understanding of the latest techniques in the field. Passionate about exploring innovative approaches to push boundaries and committed to leveraging skills and knowledge to provide customized, exceptional solutions for clients.

SKILLS

- Computer Vision
- Deep Learning
- python
- TensorFlow
- Machine Learning
- Firebase
- Database Opertions
- React Native
- JavaScript
- Keras
- Steamlit
- LLM
- Falsk
- Data Manipulation
- Deep Learnig

PERSONAL PROJECTS

FireWatch: Privacy Preserving Fire Detection System for Indoor Surveillance
- · Indoor Surveillance (02/2023 - 01/2024) Modified CCTV for privacy, implemented real-time fire detection with Jetson Nano, and developed mobile app for instant alerts. Integrated technologies to create a secure fire detection solution, ensuring privacy preservation and timely response to potential incidents

Made Internet Service Provider (ISP) using React JS, MongoDB Mernstack App •
- ISP Manager is a comprehensive web application built using the MERN stack, designed to streamline the operations of Internet Service Providers (ISPs). This platform provides a centralized hub for managing subscribers, network infrastructure, billing, and customer support, enhancing efficiency and customer satisfaction.

Mission Pandemic (COVID 19 detection using CT Scan chest images) •
- Mission Pandemic is an innovative initiative leveraging artificial intelligence (AI) technology to assist in the detection and diagnosis of COVID-19 through the analysis of chest computed tomography (CT) scan images. In the face of the global COVID-19 pandemic, Mission Pandemic aims to augment healthcare systems' capabilities by providing a reliable and efficient tool for early detection and monitoring of the disease.

BrewBuddy: Your Ultimate Milk Tea App using React Native •
- BrewBuddy is a feature-rich mobile application developed using React Native, designed to enhance the milk tea drinking experience for enthusiasts and aficionados alike. With BrewBuddy, users can discover new milk tea flavors, customize their orders, and share their favorites with friends

Kidney Stone Detection: CT Scan Image Analysis with CNN and SVM •
- Successfully developed a kidney stone detection system using CT scan image analysis with CNN and SVM. Improved accuracy in stone detection and contributed to early diagnosis and treatment