Areeb Adnan Khan

0334-1336686 | ak06865@st.habib.edu.pk | areeb.adnan.khan@gmail.com | https://github.com/Areebkhan02 www.linkedin.com/in/areeb-adnan-khan-a0322025b

Result-driven graduate with 2+ years of research exp. seeking full-time roles (May '24) in Machine Learning & Data Science

EDUCATION

Habib University, BS in Computer Engineering with minor in Computer ScienceGPA: 3.94Aug 2020 - May 2024Aga Khan Higher Secondary School, HSSC in Pre-EngineeringPercentage: 88.5%Aug 2018 - May 2020B.V.S Parsi High School, SSC in Computer SciencePercentage: 90.6%Aug 2008 - May 2018

EXPERIENCE _

Habib University - SUPARCO, Undergraduate Research Assistant | Karachi, Pakistan

May 2023 - Dec 2023

- Implement datapipline through AWS services
- Clean, process and ingest data into AWS RDS to be sent on dashboards through API
- Apply different supervised machine learning models and fine tune them.

Habib University, Associate Python Instructor | Karachi Pakistan

Dec 2022 - Jan 2023

- Led an 8-person team to organize winter python workshops for first year students.
- Prepare challenging tasks and assist students in lab in debugging their solutions.

Habib University, Teaching Assistant | Karachi | Pakistan

Aug 2021 - May 2024

• Taught Undergraduate level courses such as Programming Fundamentals, Data Structures and Algorithms, Calculus 2, Computer Architecture (x2), Digital Logic and Design, Micro-controllers and Interfacing and Operating Systems

SKILLS_

Languages Python, C/C++, JavaScript, Matlab, PostgreSQL, SQL server, MongoDB, Git, LaTeX, VerilogHDL

Libraries Pandas, Numpy, Pytorch, OpenCV, Tensorflow, Keras, Scikit-learn, Matplotlib, Seaborn

Software

Amazon Web Services (Lambda, IoTCore, RDS), ThingsSpeak, Ubidots, SQL management studio, Vivado, EDA Playground, Pspice, LT-spice, CISCO Packet Tracer, TinkerCAD, Creo-3D, SimuLink, Energia, Keil uvision5

Interfaces Visual Studio, Atom, Jupyter Notebook, Google Colab, Arduino IDE

Hardware ESP32, Arduino Uno, Jetson Nano, Rasberry pie, ESP Nano, TviaC, FPGA Basys-3 Board

PROJECTS.

IntelliCropPK May 2023 - Present

- An agrotech solution which empowers farmers to make informed decision based on ground and atomospheric data
- Implement the ML models on real time data to predict crop yields.

Elderly Fall Detection System

Jun 2022 - Jun 2023

- Developed a high-performance application based on the concepts of tracking an elderly system and use CV based technologies to identify fall
- Extensive usage of Pytorch and OpenCV library.

HarvestHub Aug 2023 - Dec 2023

- Research into existing ML models for identifying cash crop suitablility
- Improve and finetune the models and develop an application interface.

FPGA based Voting machine system

Jan 2023 - Aug 2023

Design and Implement a Prototype based on electronic voting machine but using FPGA based technology in verilogHDL.

Achievements

HU-TOPS full 100% Scholarship - Admission Grant Habib University

President's List 2022, 2023 - Habib University

Dean's List (x4), Spring 2022, Fall 2022, Spring 2023, Fall 2023 - Habib University

COP28 Project Selection Award - Prototypes for Humanity, Dubai, UAE

Publications

Engineering Proceedings Journal

BCAST Conference'23

Intelligent Monitoring for Elderly Well-being Deep Learning-Based Activity Recognition for Fall Detection

Surveying the Robotic Landscape A Comprehensive Review