BILAL HASAN KHAN

Computer Science Student

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○ GitHub

Final-semester student skilled in machine learning (ML), development, and data analysis, with a solid grasp of programming and security fundamentals. Passionate about leveraging ML and development to solve real-world problems, I'm eager to join an innovative team. I aim to build effective solutions by combining ML insights with robust development skills, while continuously learning and adapting. Seeking a dynamic role that encourages creativity, growth, and tackling diverse challenges.

EDUCATION

Bachelors of Computer Science

Namal University Mianwali

📅 09/2021 – Present

CGPA: 3.26/4.0

Relevant Coursework

- Object-Oriented Programming (OOP)
- Data Structures and Algorithms
- Data Analysis & Visualization
- Artificial Intelligence
- Computer Vision
- Operating Systems
- Computer Networks
- Software Engineering
- Machine Learning
- Cyber Security

FSc (Pre-Engineering)

Punjab Group of Colleges Mianwali

📅 04/2017 – 05/2019

Marks: 917/1100

PERSONAL PROJECTS

Bee Hives Monitoring App using AI (FYP)

- Collaborated with a German partner to develop an AI based App for bee hive monitoring
- Classified bee sounds and identified queen bee presence and detected mite attacks using hive buzz patterns
- Developed a functional app for data collection and analysis

Genomic Data Analysis for Dengue Diagnosis

- Developed a comprehensive pipeline for analyzing nucleotide sequences from NCBI data to improve dengue diagnosis
- Implemented multiple ML models (SVM, Random Forest, ANN, LSTM) achieving high accuracy in dengue prediction

Organizational Network with VPN Implementation

- Designed and implemented a robust organizational network using static routing techniques
- Configured VPN tunnels to enhance network security and protect data transmissions
- Optimized data flow patterns for efficient communication across the network infrastructure

SIEM Solution for Threat Detection and Response

- Integrated Wazuh Server, Wazuh Indexer, Wazuh Dashboard, VirusTotal and Grafana
- Implemented real-time threat detection and response capabilities

WORK EXPERIENCE

Freelancer

Fiverr

📅 01/2024 – Present

- Provided support for machine learning projects including data preprocessing and model optimization
- Delivered customized solutions in Python, SQL, and debugging, addressing unique client requirements.

SKILLS

Python   Git/GitHub   Machine Learning
TensorFlow   Scikit-Learn   Keras
Deep Learning   Artificial Intelligence
MySQL   Flask   Flutter   Cisco Packet Tracer
Networking   Cybersecurity   WAZUH

CERTIFICATIONS

Introduction to Python (Coursera)

- Gained foundational skills in Python programming, including data structures and problem-solving.

ML Course (Great learning)

- Completed an in-depth course on supervised and unsupervised learning techniques with practical data analysis projects

NUST University Hackathon Participant

- Collaborated in a competitive hackathon, developing innovative solutions and gaining hands-on project experience.

ACHIEVEMENTS

Inter University Codex Competition (Runner-Up)

- Secured 2nd place by excelling in coding

LANGUAGES

English   Urdu