Muhammad Haseeb Ashraf

AI/ML Research Engineer

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EDUCATION

FAST-National University of Computer and Emerging Sciences — 2025

BSc, Computer Science (GPA: 3.71 / 4.0) — Pakistan

EXPERIENCE

FAST-NUCES - Research Assistant — Feb 2024 – Present

Game Theory Inspired Blockchain Enabled Adaptive ACL for Securing SDN Controlled IoT Networks

- Proposed an Adaptive Access Control System (GB-ACL) for securing SDN-controlled IoT networks.
- Integrated game theory for strategic decision-making.
- Utilized blockchain for dynamic, immutable ACL policies.

FAST-NUCES - Research Assistant — Aug 2024 – Sep 2024

Abusive Language Detection in Online Gaming Communities: A Reddit Case Study

- Conducted sentiment analysis on social media interactions.
- Utilized the BERT model for optimal classification results.
- Categorized tweets as abusive or non-abusive.

Leading Edge Skills - Data Analytics Teaching Assistant — Jul 2023 – Aug 2023

Remote (USA)

- Assisted 30+ international students in grasping data analytics concepts.
- Delivered sessions on EDA, feature engineering, and visualization techniques.

FAST-NUCES - Teaching Assistant — Spring 2023, Fall 2023

Programming Fundamentals, OOP, DSA

- Assisted over 350 students across three semesters.
- Designed quizzes, assignments, and exam preparation sessions.
- Enhanced understanding of programming, algorithms, and industry norms.

Qbatch - Web Development Intern — Jul 2022 – Aug 2022

Ruby on Rails

- Developed a freelancing model website using Ruby on Rails MVC.
- Enhanced user interface with HTML, CSS, and JavaScript.
- Gained insights into industry culture and professionalism.

PROJECTS

Med Script - Final Year Project — 2024

FAST-NUCES

- Developed a Data as a Service (DaaS) system using Next.js, Node.js, MongoDB, and Whisper.
- Integrated OpenAI APIs to transcribe doctor-patient conversations in local languages.
- Targeted usage by 175,600+ doctors to reduce fraud and improve healthcare efficiency.

HSI Classification — 2024

FAST-NUCES

- Trained an HSI classification model using the State Space Mamba Model with *Differential Attention for feature enhancement, Fusion Transformer, and Energy Transformer.*

Climate Change Analysis — 2023

Leading Edge Skills

- Conducted global climate analysis using Tableau, SQL, and Excel.
- Provided insights for actionable climate change mitigation strategies.

Text Editor 2023

FAST-NUCES

- Created a text editor using C++ and C with Huffman Encoding for efficient data storage.

Car Price Prediction 2023

FAST-NUCES

- Created a Flutter all device app using Statistics and Machine Learning

Skills

Programming Languages: C/C++, Python, JavaScript, Ruby
Frameworks & Libraries: Ruby on Rails, Node.js, PyTorch, TensorFlow, Scikit-learn, Git, FastAPI
Databases: MySQL, MongoDB, SQLite3
Tools: Android Studio, Firebase, Postman, Jupyter, Google Colab, Tableau, Sagemaker, PowerBI
Others: SLURM, EDA, Research Writing, SLR Preparation, Feature Extraction

Achievements

- Qualified for ICPC 2024 and 2021 on campus.

- Awarded Leading Edge Skills Scholarship in Data Analytics.

- Dean's List for six consecutive semesters.

- Bronze medal for Spring 2023

- Qualified and Ranked in inter-university programming competitions.

Certifications

- Leading Edge Skills Certified Data Analyst.

Community Participation & Leadership

- Technical Head, FAST Cybersecurity Society (FCS).

- Member, Microsoft Learn Student Ambassadors (MLSA).

- General Body Member, FAST Club of App Development (FCAP).