

Shahbano Waqar

Lahore, Pakistan | shahbanowaqar589@gmail.com | +923454152732 |

LinkedIn: [ShahbanoWaqar](#) | GitHub: [ShahbanoWaqar](#)

EDUCATION

National University of Computer and Emerging Sciences

Lahore, Pakistan

B.S. in Computer Science

Expected Graduation, June 2024

- **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Data Science, Artificial Intelligence, Data Warehousing and Data Mining, Advance Database Concepts, Information Retrieval, Cloud Computing

EXPERIENCE

GlowingSoft

Lahore, Pakistan

Data Science Intern

Summer 2023

- Applied advanced data analysis techniques to extract meaningful insights from large datasets.
- Applied machine learning algorithms for predictive modeling in small-scale industry projects, showcasing practical application of skills.

Xavor Corporation

Lahore, Pakistan

Generative AI Intern

October 2023

- Mastered large language models and LangChain, and prompt engineering.
- Designed and developed a multifunctional chatbot using LangChain, integrating Chains and memory concepts for context-aware conversations.

PROJECTS

HR Expert System

- Developing an innovative HR Expert System, utilizing voice and text interactions to support HR managers in resolving conflicts and giving suggestions. The knowledge areas in this project are React, Python, Langchain and LLAMA 2 Model.

Hotel Recommendation System

- Engineered a hotel recommendation system using PySpark, employing K-means clustering and sentiment analysis for tailored recommendations. Enhanced user experiences by analyzing large-scale review data and implementing collaborative filtering, resulting in significantly improved customer engagement.

Trojan Detection Web App

- Developed a Streamlit-based web application for predicting and analyzing network flows to identify potential trojan activity. Preprocessed data, identified relationships, and utilized a Gradient Boosting Classifier trained on network flow data to classify packets as Trojan or Benign.

Image Classification of Handwritten Digits

- Implemented image classification of handwritten digits using Python and AI techniques. Leveraged the MNIST dataset for training, achieving accurate recognition through the application of advanced image classification methods.

Web Scraper

- Developed a robust web scraper utilizing the BeautifulSoup library to extract and organize website data from three campuses of FAST, enhancing the accessibility of campus-specific information for analysis and decision-making.

ACTIVITIES AND LEADERSHIP

National University of Computer and Emerging Sciences

Lahore, Pakistan

Teaching Assistant for CS 3005 (Theory of Automata)

Fall 2023

FAST CARE

Lahore, Pakistan

Vice President

Aug 2022 – June 2024

- Vice President of an organization that prioritizes community upliftment through diverse initiatives such as organizing blood drives, providing clothing for those in need, supporting the underprivileged, and inspiring individuals facing adversities.

SKILLS AND TOOLS

C++, Python, SQL, Pandas, NumPy, Matplotlib, Scikit-learn, LangChain, Jupyter Notebook, AWS, Hadoop, Apache Spark, GitHub, PyCharm, VS Code