Muskan Ahmad

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About me!

As a data science enthusiast with a passion for drawing on data for social and technological revolution.My studies have helped me learn how to create and improve AI algorithms, work with complex data, and build modern web applications. I also take part in research and student societies, contributing to technology and community projects at GIKI

Education

GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECHNOLOGY (GIKI), BS in Data Science — Sept 2024 – Expected june 2026

- GPA: 3.37/4.0

QUAID-E- AZAM GROUP OF SCHOOL AND COLLEGE SWABI,Pre Engineering — july 2020 – May 2022

- GRADES: 1054/1100

Experience

Junior Flutter Intern, Appspot,Peshawar,pk — May 2024 – july 2024

- Junior Flutter Intern responsible for designing,developing, and maintaining cross-platform mobile applications using Flutter. Collaborated with cross-functional teams to implement UI/UX designs and integrate back-end services. Troubleshooting, debugging,and optimized application performance to ensure high-quality user experiences. Demonstrated adaptability and willingness to learn new tools, libraries, and techniques in Flutter and mobile app development.

Frontend Intern, Interns Pakistan , Remote — June 2024 – july 2024

- Gained hands-on experience in front-end development while collaborating remotely on projects, meeting deadlines, and improving communication and time management skills.

Projects

SPAM DETECTION — 08/05/2024

- Developed a text classification model for spam detection using bidirectional RNNs (GRU and LSTM) to capture contextual information from the sequential data, using the data set 'SPAMtextmessage 20170820-Data.csv'.
- Tools Used: Python.

TASK SCHEDULING FOR CLOUD COMPUTING — 03/12/2024

- Developed a task scheduling algorithm for cloud computing using the M/M/n queuing model and apriority assignment method with a waiting time matrix and Fibonacci heap. Introduced aparallel approach for tasks scheduling, comparing performance against existing techniques (BATS, IDEA, BATS + BAR) in terms of waiting time and CPU time, and application of dynamic cloud environments to handle tasks with varying priority.
- Research Based project

ANALYZING EMPLOYEE ATTRITION AND WORK FORCE DYNAMICS THROUGH HR DATA — 09/12/2024

- Analyzed an HR dataset to understand the job search and trends, documenting its structure, and preprocessing it for analysis.Developed an interactive PowerBI dashboard with visualizations such as bar graphs, heat maps, and linegraphs to discover key insights and supports strategy HR decisions.
- Tools Used: Power Bi

ACM Chatbot Deployement — 12/05/2025

- This project deploys the ACM Chatbot (Python/Streamlit) to Azure using Docker, GitHub, and Azure services (VM, ACR, ACI). The chatbot is publicly accessible via a web URL, demonstrating a cloud-native DevOps

workflow from development to scalable deployment.

- Tools Used: Microsoft Azure , github

Customer Purchase Behavior Analysis using the Online Retail Dataset 13/05/2025

- This project explores customer purchasing behavior using the Online Retail dataset from UCI. The analysis includes preprocessing, exploratory data analysis (EDA), association rule mining, classification, and customer segmentation through clustering. The objective is to extract actionable insights and suggest business strategies that enhance customer engagement and profitability.
- Tools Used:Google Colab ,interactive frontend using Gradio

Technologies

Languages: C++, C, Java, Python, SQL, JavaScript,R programming

Technologies: , Microsoft SQL Server,Power bi,Flutter Development,Flask, Microsoft Azure,

Societies

EC member of Team Techno
Member of Institute Of Mechanical Engineering(IMECHE)
Vice President of International Society for Optics and Photonics(SPIE)

Achievements

Dean's Role of honor certificate(2 times)
1st position in FSC(BISEmardan)
Google professional data analytics certificate