Rabbia Saleh

Student

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⌨ https://github.com/RabbiaSaleh

Summary

I'm Rabbia Saleh, a passionate Computer Science student with a strong foundation in **Java and Python programming** and expertise in **data structures, algorithms**, and **data analysis**. I've worked on several academic and self-initiated projects, including a **Flight Route Tracker** using Dijkstra's Algorithm and a **Linked List-Based MCQ System**. My involvement in an **Industrial IoT (IIoT)** project further strengthened my proficiency in Python, particularly for **data processing and analytics**.

One of my key projects, Analysis of Dataset, showcases my ability to clean, explore, and analyze real-world data using Python libraries like **Pandas and Matplotlib**.

I am seeking **internship or entry-level opportunities** in **software development or data analysis**, where I can apply my technical skills, solve meaningful problems, and continue growing professionally.

Personal Information

Gender: Female

Nationality: Pakistani

Birthdate: 24/01/2001

Residence: Faqeer Muhammad Goth, Jam Kanda Road, Malir, Karachi

Graduation Year: Sept 2023 - Present

Graduated From: SZABIST University

Work Experience

- **TCF School - August 2019 - March 2020**

  Volunteer in Project ILM Ujala

  Back when schools were closed during the COVID-19 pandemic, this project became a way to help students keep learning from home. I stepped in as a **substitute teacher for Math and Physics**, teaching kids through online classes and making sure they didn't fall behind in their studies during such a difficult time

Projects

- **Crime Data Analysis in Pakistan (2012–2023)**

  Data Analyst & Visualizer

  https://github.com/RabbiaSaleh/Analization-Of-DataSet

  This project entails a comprehensive analysis of crime data in Pakistan spanning from 2012 to 2023. Utilizing Python, the study visualizes trends in various crime types over the years, providing clear insights into the evolution of criminal activities during this period.

- **Library Management System**

  Java Developer & Database Integrator

  https://github.com/RabbiaSaleh/Library-Management-System

  This project is a JavaFX-based application designed to streamline library operations. It offers functionalities to add, view, edit, and delete book records, providing an efficient way to manage library resources.

- **Flight Route Tracker**

  Java Developer & Algorithm Designer

  https://github.com/RabbiaSaleh/Flight-Route-Tracker

  This Java application enables users to manage airports, define flight routes, and determine the shortest path between two airports using Dijkstra's Algorithm. It calculates the shortest route based on distance, providing estimated travel time and the number of connections required.

Skills

- **Programming Languages:** Java – Strong proficiency

  Python – Intermediate; applied in IoT and data analysis projects C++ – Basic understanding

- **Web & Software Development:** HTML, CSS, JavaScript – Basic frontend knowledge

  JavaFX – For desktop GUI applications Git & GitHub – Version control and team collaboration

  SQL (MySQL) – Used for database integration

- **Data Analysis & Tools:** Python for data analysis – Experience using Pandas and Matplotlib

  Worked on IoT data – Processing and analyzing datasets collected from IoT projects

  Dataset cleaning, visualization, and insights extraction Strong foundation in Data Structures & Algorithms

- **Soft Skills:** Teaching & mentoring – As a Teaching Assistant and during COVID through online classes

  Team collaboration – academic projects Communication – Comfortable explaining technical concepts

  Problem-solving mindset Quick learner & self-motivated

Education

TCF School SSD XIII Campus - 2006 - 2017

Computer Science - Matric

GOVT College Of Science and Arts MURAD MEMON GOTH - 2019 - 2021

PRe - Intermediate

SZABIST University - 2023 - 2027

Computer Science - Undergraduate

Languages

English: Intermediate

Courses and Certificates

IOT (internet of things) , System and Application Development - Institute of Business Management