Syed Hassnain Abbas

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PROFILE

I am a software engineering student at FAST NUCES Batch 23, with a solid foundation in programming and experience in Python, Java, and C/C++ HTML, CSS, SQL and Machine Learning. Additionally alongside my coding, I have expertise in Power BI and data visualization and have done projects in them. Currently in my 3rd semester and im eager to undertake projects and internships that will help me apply and enhance my skills in real-world scenarios.

EDUCATION

BS Software Engineering   2023 – 2027
 FAST - National University of Computer and Emerging Sciences   Pakistan

PROFESSIONAL EXPERIENCE

Software Engineer Intern - HMC   06/2024 – 08/2024
- Gain hands-on experience in **Java** by developing an **Audio Player**.   Taxila, Pakistan
- Work on essential **Data Structures** like **Linked Lists**, **Stacks**, **Queues**,and **Tree**.
- Earn certifications in **Machine Learning** and **Data Visualization**
- Train a machine learning model to predict housing prices

Intern - Unique Systems   06/2024 – 08/2024
- Gained valuable insights into server technology and learned how servers are built   Islamabad, Pakistan
  from the ground up and got hands-on experience installing operating systems,
  including the **ESXi OS**.
- Explored the process of creating and managing local hosts, connecting them to
  other devices through **vCenter**.
- Gained practical knowledge about the creation and configuration of **Virtual
  Machines** (VMs) within **vCenter**

Intern - GCS   06/2023 – 08/2023
- Learned **Power BI** from scratch through structured training sessions and hands-   Islamabad, Pakistan
  on exercises.
- Gained proficiency in **data visualization**, **reporting**, and creating **interactive
  dashboards** using Power BI.
- Applied newly acquired skills to analyze and transform data into actionable
  insights.
- Assigned a **final project** that involved building a comprehensive dashboard,
  integrating real-world data, and presenting insights to the team.

PROJECTS

Applied Machine Learning to train a model
Summer Internship Task.
- Developed a machine learning model to predict house prices using a real-world dataset.
- Applied data preprocessing and feature engineering to improve model accuracy.
- Trained the model using algorithms such as random forests regression and decision trees.
- Implemented the solution to provide reliable price predictions based on key features like location, size, and amenities.

Power BI
Created Projects for small businesses and learning.
- Used dynamic visualization for easy data exploration.
- Made decision making easier for businesses with real time data.

Audio Player in Java
- A Java application mimicking Spotify's basic functionalities.
- Used GUI for user authentication and main menu features.
- Concepts of OOP have also been used in thsi project as well as error handling to make it reliable to use.

Railway Management System

Semester Project for Object Oriented Programming

- Used concepts of OOP such as Classes, Objects, Polymorphism etc.
- Applied exceptional handling in the code to avoid failure.
- Utilized C++ for robust and efficient backend logic and data processing

Rent a Car System

Semester Project for Programming Fundamentals.

- Using basic concpets of coding such as arrays, pointers and loops are used.
- Provided login and sign up option using file handling.
- Provided user friendly interface to make user engage with the system.

SKILLS

Machine Learning, Feature Engineering, Data Visualization, SQL, C/C++, Java, Python, HTML, CSS, Power BI.

a decent grip on the following libraries: Pandas, Seaborn, Scikit-learn