Ayesha

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SUMMARY

I am a Computer Science graduate with over 3 years of freelance experience in web and app development, machine learning, and a strong foundation in data handling, databases, and programming. Eager to grow as a remote junior data engineer and contribute to impactful data projects.

EDUCATION

B.Sc. Computer Science **(10/2016 – 07/2020)**
University of Engineering & Technology, Lahore, Pakistan CGPA: 3.002/4

SKILLS

Programming Languages: C#, C++, JAVA, PHP, Python, React Native, React Js
Front-end Technologies: HTML5, CSS, Angular Js, JavaScript
Tools/Technologies: Visual Studio, Visual Studio Code, Android Studio, MATLAB, Jupyter Notebook
Databases: SQL Server, My SQL, PostgreSQL, SQLite, AWS Core

WORK EXPERIENCE

Walmart | Team Associate **(11/2023 – Present)**

- Currently working part-time as a Team Associate in the Apparel section at Walmart Supercenter, with responsibilities including customer assistance, inventory management, and product organization.

Freelance Work **(08/2020 – Present)**

- Successfully completed a variety of projects as a freelancer, utilizing a range of programming languages including Python, PHP, Java, C++, C#, React Native, and more. Experienced in developing web, desktop, and mobile applications using platforms such as Visual Studio, Jupyter Notebook, and Android Studio.

PITB - ASTP | Intern **(10/2020 – 03/2021)**

- Developed multiple small-scale projects using ASP.NET and SQL Server, creating various websites within the .NET framework. Additionally, utilized Telerik controls to enhance the functionality and user interface of these applications.

Theta Tech | Intern **(06/2020 – 09/2020)**

- Contributed to the management and upgrade of the Punjab Government's website, a Python Django web application with a PostgreSQL database. Responsible for backend development using the Django framework.

Khwarizmi Research Center, UET Lahore | Intern **(06/2019 – 08/2019)**

- Developed a desktop application using Visual Studio with SQL Server integration for database management. Upgraded the Student Record Management System, handled the complete codebase, and documented the entire project.

RELEVANT PROJECTS

Patient Management System – Web-based Application

- Developed a full-stack web application using Visual Studio and SQL Server to manage clinical data—patient records, appointments, and prescriptions—with secure access for doctors and patients, and an AI-driven module to assist in diagnosis based on symptoms.

Predicting House Prices in King County, Seattle, Washington

- Built a predictive model in Python using scikit-learn, Pandas, and Jupyter Notebook to estimate house prices in King County, Washington, from historical transaction data.

Clustering the Military Powers of Countries

- Used K-Means Clustering in Python with Pandas and Jupyter Notebook to analyze global military data and identify the most powerful armies based on key performance indicators.
- Handled data preprocessing, normalization, and feature selection to generate meaningful insights from clustering results.

San Francisco Airport Clustering

- Applied K-Means Clustering in Python using Pandas and Jupyter Notebook to analyze and group air traffic data from San Francisco Airport, and identified traffic patterns and categorized flight data to uncover peak hours, high-traffic routes, and operational trends

Building a predictive maintenance model for a delivery company

- Developed a predictive maintenance model for a delivery company using Python, Pandas, and scikit-learn to forecast equipment failures and reduce downtime.
- Utilized historical maintenance and usage data to train classification models, improving operational efficiency and maintenance planning.

Image Classification with CNN for Malaria Data

- Built a Convolutional Neural Network (CNN) in Python using TensorFlow and Keras to classify cell images as parasitized or uninfected for malaria diagnosis.
- Preprocessed image data, trained deep learning models, and achieved high classification accuracy for medical image analysis.

Image Classification with CNN for CIFAR_10 Data

- Implemented a Convolutional Neural Network (CNN) in Python using TensorFlow and Keras to classify images from the CIFAR-10 dataset into 10 categories.
- Conducted data preprocessing, model training, and evaluation to optimize accuracy and improve generalization on unseen image data.

Recommendation System for a medical supplies company

- Developed a recommender system in Python using collaborative filtering and content-based techniques to suggest relevant medical supplies to customers.
- Leveraged purchase history and product attributes to improve customer experience and boost sales through personalized recommendations.

ZUELA Project (Web and Mobile App)

- Developed a cross-platform application using React Native for Android, iOS, and web to facilitate civic participation and promote good governance.
- Enabled users to share content, engage in discussions, and interact with political leaders and organizations on issues such as politics, crime, ethics, and human rights.

COURSE PROJECTS

Contact Management System

- Developed a desktop application in C# to manage and store contact information for users, enabling them to communicate efficiently through the app.

Online Food Order System

- Created a web application in C# (MVC) with SQL Server to allow users to order food, track delivery, and manage the process from ordering to pick up.

Inventory Management System with Scanner

- Developed a mobile app using Android Studio, PHP, and MySQL with barcode scanning for inventory control.

Indoor Localization using BLE (Bluetooth Low Energy) Beacons

Undergraduate senior year project

- This undergrad final year project used real time data from BLE beacons to inform the users about indoor locations in a building. The project included three applications: one for data acquisition, one for admin control, and one for end users.
- K-NN, A-NN and Random Forest algorithms were used to train dataset for accuracy and precision of current and nearby location of users.
- Used Java for android application, MySQL for database and Python for Machine Learning.

CERTIFICATIONS & COURSES

Mastering Applied Data Science (8-week bootcamp) – Summer 2023, organized by Data Science Bootcamp and Muslim Students Association, Michigan Tech .

Circuits and Electronics 1: Basic Circuit Analysis and Circuits and Electronics 2: Amplification, Speed, and Delay – MIT (Massachusetts Institute of Technology) through EDX