

USMAN SAEED

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Summary

I am a dedicated Computer Science student with a strong passion for programming, logic building, and problem-solving. With a keen interest in learning new technologies, my primary focus lies in the realms of data science and machine learning, where I aim to leverage the power of data to drive innovation and make informed decisions. Currently, I am honing my skills in computer vision and learning backend technologies, enabling me to extract meaningful insights from complex datasets and build robust applications. I have completed projects using Python and actively solved LeetCode problems to enhance my algorithmic and coding skills.

Technical Skills

Programming Languages: Python, C++, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: Django, Flask, FastAPI, Flutter, Firebase, TensorFlow, OpenCV, LangChain

Tools: Docker, Git, Visual Studio Code, Microsoft Suite, MySQL Server

Self-Learning Specializations: Data Science | Machine Learning | Deep Learning | Backend Development | App Development

Professional Skills: Leadership | Attention to detail | Fast paced learning

Experience

Intern, Jazz

Islamabad, Pakistan July, 2023 – Aug, 2023

- Automated data processing workflows using Python, eliminating hours of manual labor weekly and increasing data accuracy, allowing team members to focus on critical analysis tasks.
- Improved reporting accuracy and efficiency, aligning with Jazz's data management standards.

Education

Bachelor of Science in Computer Science

Bahria University, Islamabad, Pakistan Mar 2021 – Current

- Current CGPA: 3.3
- Studied Data Structures, Object Oriented Programming, Statistics, Data Communication and Networking, Database Management Systems, Design Analysis and Algorithms, Parallel and Distributed Computing, Artificial Intelligence and counting.
- University Electives: Data Science | Natural Language Processing | Digital Image Processing

Projects

- LitterCam AI:** Developing LitterCam AI for final year project, leveraging computer vision to detect littering from vehicles and identify violators through license plate recognition, contributing to environmental protection efforts.
- WebChat:** Created a robust Flask web application to automate data extraction from various websites and facilitate seamless Q&A interactions; improved response accuracy and reduced manual data collection time.
- Chat Application:** Designed and implemented a Chat App using Flutter & Firebase, ensuring a seamless and responsive user experience across various platforms.
- Flight Optimization System:** Designed a Flight Optimization System with a Genetic Algorithm for route planning and resource allocation, developed using Flask.
- PanNuke Dataset Segmentation:** Segmented the PanNuke dataset using TensorFlow and U-Net with ResNet34 as the backbone, demonstrating expertise in advanced image segmentation techniques.
- Post Office Management System:** Developed a Post Office Management System in C++ using OOP principles, showcasing software development, data management, and problem-solving skills.

Certifications

- Deep Learning Specialization - DeepLearning.AI
- Machine Learning Specialization – DeepLearning.AI