



# Muhammad Saif Basit

## Data Scientist

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Jeddah, Saudi Arabia

A research-oriented AI Engineer and Data Scientist with 4+ years of diversified experience in AI, Power BI, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing and Data Science. Proficient in Python. Being a first author of a publication in 'IEEE', the world's largest technical organization, with citations, showcases my commitment to advancing the field of AI. I enjoy taking new challenges and putting pieces together to solve complex problems to challenge my thinking capability. Eager to contribute my research and practical expertise with self-learning capabilities to a forward-thinking organization and ready to leverage cutting-edge technologies like AI, for data-driven decision-making and digital transformation.

## SKILLS

AI / Machine Learning   Deep Learning   Data Science   Natural Language Processing   Computer Vision   LLM  
Full-stack Development   Web Development   Python Development   Frontend Development   Backend Development  
Python   React.js   Django   HTML   CSS   JavaScript   AWS/Azure/GCP   FastAPI/RESTful API   Docker  
Workflow Management   Team Leadership   Project Management   Problem Solving

## WORK EXPERIENCE

### Data Analyst

#### Sealand Foodstuff Trading LLC

(A renowned UAE and KSA based Seafood Distribution Company)

Nov 2023 - Present



Jeddah, KSA

#### Achievements/Tasks

I have been involved in:

- Researching and leveraging latest Artificial Intelligence (AI) and data-driven methodologies to develop systems for increased teamwork efficiency.
- Developing and maintaining real-time data dashboards and reports with Key Performance Indicators (KPIs) using tools like Excel, SQL and Power BI, resulting in significant reduction in decision-making time.
- Implementing data cleaning and transformation techniques using Python and Data Analysis Expressions (DAX) to ensure data accuracy and consistency, improving the quality of analytics.
- Extracting data from ERP and performing extensive Exploratory Data Analysis (EDA) to identify areas of improvement and provide insights into sales performance with accurate figures.
- Demonstrating leadership skills and facilitating seamless communication between the sales and purchase departments, enhancing coordination and data exchange for more informed decision-making.

### Data Scientist

#### Shah Nosh

(An established Catering, Trading and Food Consultancy Firm)

Jan 2021 - Oct 2023



Lahore, PAK

#### Achievements/Tasks

I had been involved in:

- Writing well-designed, efficient, and testable code.
- Creating, updating and managing relational databases, such as MySQL.
- Successfully developed a Machine Learning predictive model that accurately predicted customer traffic, ultimately resulting in significant increased staff efficiency and reduced food waste.
- Conducting an extensive EDA, concluding in a 12% increase in sales during peak hours.
- Developing a real-time Looker Studio dashboard to track daily sales success, leading to a substantial reduction in decision-making time.
- Conducting an NLP sentiment analysis on customer feedbacks, resulting in the introduction of new menu

items and notable increase in repeat customer visits.

- Receiving “**Innovator of the Month**” award for consistently introducing novel approaches of AI for team success.

## ○ Full-Stack Web Developer Freelance

Jan 2021 - Nov 2023

### Tasks

I had been involved in:

- Developing front-end using languages and libraries (e.g., React.js, HTML, CSS, JavaScript, XML, jQuery)
- Working with multiple back-end languages (e.g., Python, Java, C++, Node.js) and other web frameworks (Django, Flask, FastAPI)
- Working with databases (e.g., MySQL, PostgreSQL, MongoDB), cloud platforms (e.g., AWS, Azure, GCP) and UI/UX design.
- Successful integration of AI and ML into websites.
- Performing web scraping, working with Git and GitHub, MLOps, and maintaining CI/CD pipelines.
- Working with Large Language Models, Transformers and Prompt Engineering.

## PUBLICATIONS

### Driver Drowsiness Detection with Region-of-Interest Selection Based Spatio-Temporal Deep Convolutional-LSTM

Institute of Electrical and Electronics Engineers (IEEE)

18 Jan, 2023

[M. S. Basit, U. Ahmad, J. Ahmad, K. Ijaz and S. F. Ali, "Driver Drowsiness Detection with Region-of-Interest Selection Based Spatio-Temporal Deep Convolutional-LSTM," 2022 16th International Conference on Open Source Systems and Technologies \(ICOSST\), Lahore, Pakistan, 2022, pp. 1-6, doi: 10.1109/ICOSST57195.2022.10016825.](#)

A real-time drowsiness detection system is needed by using Artificial Intelligence algorithms to detect drivers' drowsiness at an early stage and alert accordingly. This study proposes a deep learning approach, i.e., automatic region-of-interest selection based stacked spatio-temporal convolution-long short-term memory (ConvLSTM) drowsiness detection neural network, for an in-vehicle surveillance and security system.

## PROJECTS

### Potato Disease Classification using Deep Learning - Web App & Mobile App with Cloud Deployment

- Frontend (HTML, CSS, JavaScript, React.js, React Native), Cloud Deployment (GCP), Container (Docker), API (FastAPI), API Validation (Postman), Libraries (Tensorflow, Keras, NumPy, Pandas, PIL), Architecture (CNN), Techniques (Data Augmentation, Quantization, Extract Transform Load ETL)

### Movies Recommender System using NLP - Web App with Cloud Deployment

- Frontend (HTML, CSS, Bootstrap, JavaScript), Backend (Node.js), Cloud Deployment (Heroku), Libraries (NumPy, Pandas, NLTK), Techniques (Sentiment Analysis, Stemming, Text Vectorization, Tokenization, Exploratory Data Analysis EDA)

### Driver Drowsiness Detection using Deep Learning - Simulation & Research Paper

- Image Processing (Python, OpenCV), Visualization (Matplotlib, Seaborn), Libraries (Scikit-learn, Tensorflow, Keras, NumPy, Pandas, PIL), Architecture (ConvLSTM), Techniques (Feature Engineering, Object Detection)

### Arduino-based Mini CNC Plotter Machine - Internet of Things (IoT) Product

- Arduino UNO, Programming Language (C++), G-Code Generation (Inkscape), G-Code Sender GUI (GCTRL), L293 DMotor Shield

### Hospital Management System - Frontend & Backend Website

- Frontend (HTML, CSS, Bootstrap, JavaScript), Backend (Node.js)

### Zameen.com (Clone) - Frontend Website

- Frontend (HTML, CSS, Bootstrap, JavaScript)

## CERTIFICATES

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- Data Science Virtual Experience Programme - **British Airways**
- Machine Learning with Python - **IBM**
- Databases and SQL for Data Science with Python - **IBM**
- Responsive Website Basics: Code with HTML, CSS, and JavaScript - **University of London**

## EDUCATION

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### **Bachelor's in Computer Science**

University of Management and Technology

*Pakistan*

**Subjects:** Artificial Intelligence, Machine Learning, Computer Vision, Data Mining, Blockchain Technology and Application, Web Technologies, Software Engineering, Data Structures and Algorithms, Linear Algebra, Probability and Statistics