



# Muhammad Saif Basit

Full-Stack AI Engineer/  
Data Scientist

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Jeddah, Saudi Arabia

Iqama Status: Transferable

A Full-Stack AI Professional and a Data Scientist with 2+ years of diversified experience in AI, Machine Learning, Computer Vision and Natural Language Processing. Proficient in Python. Being a first author of a publication in 'IEEE', the world's largest technical organization, showcases my commitment to advancing the field. I enjoy taking new challenges and putting pieces together to solve complex problems to challenge my thinking capability. Eager to contribute my expertise and self-learning capabilities to a forward-thinking organization and ready to leverage cutting-edge technologies 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 Scientist/ML Engineer

**Shah Nosh**

(An established Catering, Trading and Food Consultancy Firm)

July 2021 - Present



Lahore, PK (Hybrid)

#### Achievements/Tasks

I have been involved in:

- Writing well-designed, efficient, and testable code.
- Creating, updating and managing relational databases, such as MySQL.
- Successfully developed an ML predictive model that accurately predicted customer traffic with a 90% confidence level, resulting in increased staff efficiency and reduced food waste by 10%.
- Conducted an extensive EDA, resulting in a 20% increase in sales during peak hours.
- Developed a real-time Looker Studio dashboard for daily sales performance, leading to a 5% increase in overall sales and a 10% reduction in decision-making time.
- Conducted an NLP sentiment analysis on 1,000+ customer feedbacks, resulting in the introduction of 10+ new menu items and a 15% increase in repeat customer visits.

### ○ AI Engineer/Full-Stack Web Developer

Fiverr/Upwork.

Jan 2021 - Present

Freelance

#### Achievements/Tasks

I have 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), data visualization tools (Tableau, Power BI) and UI/UX design.
- Successful integration of AI and ML into websites.
- 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.](#)

## PERSONAL 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), 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), Architecture (ConvLSTM), Techniques (Feature Engineering, Object Detection)

### Hospital Management System - Frontend & Backend Website

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

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

- Frontend (HTML, CSS, Bootstrap, JavaScript)

### Arduino-based Mini CNC Plotter Machine - IoT Product

- Arduino, Software (Inkscape), GUI (GCTRL)

## CERTIFICATES

- 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**
- Cybersecurity and the Internet of Things - **University System of Georgia**

## EDUCATION

### Bachelor's in Computer Science

University of Management and Technology

Pakistan