# Muhammad Saif Basit

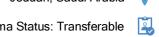**Full-Stack AI Engineer/
Data Scientist**

msaifbasit@gmail.com

+966-59-0440721

linkedin.com/in/muhammad-saif-basit/

Jeddah, Saudi Arabia

Iqama Status: Transferable

A full-stack AI professional and a data scientist with 2+ years of diversified experience, also holding publication in the world's largest technical professional organization "IEEE" as a first author. I enjoy taking new challenges and putting pieces together to solve complex problems to challenge my thinking capability. I am always seeking to advance my career in revolutionary tech to keep myself updated and looking for an opportunity to utilize my self-learning capabilities to perform data-driven decision-making with cutting-edge technologies.

## 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, Heroku) and UI/UX design.
- Successful integration of AI and ML into websites.
- Working with Large Language Models 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.

## SIDE 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, Seaborne), 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** – 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*