



Hafiz Hassan Mustafa

Nationality: Pakistani | **Phone number:** (+92) 3212712753 (Mobile) |

Email address: hassanqureshi700@gmail.com | **LinkedIn:**

<https://www.linkedin.com/in/hafiz-hassan-mustafa-692b391b4> |

Address: Ameer Ayub Khan Road Ramswami, South Karachi, 74400, Karachi, Pakistan (Home)

● ABOUT ME

A passionate candidate who has hands-on experience in Generative AI development, machine learning, and deep learning is applying to be a data scientist or an AI engineer to scale up their expertise and explore real-world problems to achieve valuable experience.

● WORK EXPERIENCE

07/12/2022 – 07/01/2023 Karachi, Pakistan

DATA SCIENCE TRAINEE BRITISH AIRWAYS

Tasks:

- Web scraping to gain company insights.
- Predicting customer buying behavior.

24/01/2023 – 25/02/2023 Karachi, Pakistan

AI & DATA SCIENCE TRAINEE SAYABIDEVS SOFTWARE HOUSE

1. Python Chatbot:

- Developed a Python-based chatbot using natural language processing techniques and libraries such as NLTK or spaCy. This chatbot was designed to interact with users, answer questions, and provide assistance in various domains.

2. Sales Predictor:

- Designed and implemented a sales predictor using machine learning algorithms such as regression or time series forecasting. This project involved analyzing historical sales data, identifying relevant features, and building a predictive model to forecast future sales trends.

3. Recommendation System:

- Built a recommendation system using collaborative filtering or content-based approaches to provide personalized recommendations to users. This project involved processing user preferences and item characteristics to generate relevant recommendations in domains such as e-commerce or content streaming.

01/03/2023 – 01/06/2023 Karachi, Pakistan

DEEP LEARNING ENGINEER BYTEWISE LIMITED

- **Machine Learning:** Knowledge of various machine learning algorithms, including decision trees, random forests, support vector machines, k-nearest neighbors, etc.
- **Exploratory Data Analysis (EDA):** Proficient in performing EDA to understand data distributions, identify patterns, and detect outliers.
- **Data Cleaning & Handling Missing Values:** Skilled in handling missing data through imputation techniques and performing data cleaning to ensure data quality.
- **Feature Engineering & Data Preprocessing:** Experienced in feature engineering techniques such as scaling, transformation, and the creation of new features to enhance model performance.
- **Feature Selection:** Understanding feature selection methods such as filter, wrapper, and embedded techniques to improve model interpretability and efficiency.
- **Underfitting, Overfitting, and Regularization:** Familiarity with concepts of underfitting and overfitting, and knowledge of regularization techniques, including Lasso (L1) and Ridge (L2) regularization.

- **Data Augmentation:** Proficient in data augmentation techniques to increase the diversity of training data, especially in image and text data.
- **Neural Networks:** Experience with various types of neural networks, including Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Long Short-Term Memory (LSTM), and Gated Recurrent Unit (GRU).
- **Encoding Techniques:** Skilled in one-hot encoding for categorical variables and word embeddings such as Word2Vec, GloVe, or FastText for natural language processing tasks.

12/08/2023 – CURRENT Karachi, Pakistan

AI ENGINEER INDENTA TECHNOLOGIES

1. Python Automation:

- Developed Python scripts to automate repetitive tasks, resulting in a significant reduction in manual workload and improved efficiency.

2. Langchain & Large Language Models:

- Explored Langchain and large language models to understand their applications in natural language processing tasks, contributing to research and development initiatives.

3. AI Law Consultant eBook and Chatbot:

- Led the development of an eBook and chatbot for an AI law consultant using Python, OpenAI, LlamaIndex, Langchain, HTML, CSS, and JavaScript. This project involved integrating various technologies to provide AI-driven legal consulting services.

4. OpenAI ChatGPT Chatbots (Multilingual):

- Built multilingual chatbots using OpenAI ChatGPT, demonstrating proficiency in natural language understanding and generation across multiple languages.

5. Optical Character Recognition (OCR) System with Gemini and GPT-Vision 4:

- Designed and implemented an optical character recognition (OCR) system using Gemini and GPT-Vision 4, showcasing expertise in computer vision and machine learning.

6. Autogen Project with Mistral LM 3B:

- Developed the Autogen project based on user proxy and agent using Mistral LM 3B, showcasing innovation and expertise in natural language processing and conversational AI.

7. Jr. Backend Developer in Bid and Estimation Software with PHP and MySQL:

- Served as a backend developer in the development of bid and estimation software using PHP and MySQL, contributing to the creation of scalable and efficient web applications.

8. Audio-Based Anomaly Detection System:

- Engineered an audio-based anomaly detection system to identify speaker diarization and analyze fraudulent activity between clients and agents, demonstrating expertise in signal processing and machine learning.

● EDUCATION AND TRAINING

24/09/2019 – 21/07/2023 Karachi, Pakistan

BACHELORS OF ENGINEERING (MECHANICAL) DHA Suffa University

- Runner-up of the Data Science Competition (Spectrum Event) held at the university.
- 2nd Position in Stable LM 3B 24-Hour International Hackathon (lablab.ai).
- Compete in Custom GPTS 48-Hours International Hackathon (lablab.ai).

Website <https://www.dsu.edu.pk/> | **Field of study** Bachelors of Engineering (Mechanical)

16/10/2022

DATA SCIENCE WITH PYTHON Simplilearn

22/12/2022

DEEP LEARNING Simplilearn

30/01/2023

CERTIFIED ARTIFICIAL INTELLIGENCE DEVELOPER PIAIC

09/02/2023

DATA ANALYTICS AND BUSINESS INTELLIGENCE

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	B2	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Machine Learning | Deep Learning, | ARTIFICIAL INTELLIGENCE | Experience in MATLAB, python, and R | Power BI/Power Pivot | Data Visualization Tableau (Good Standing) | Pytorch,Tensorflow | Python, automation scripts, Requests, Selenium libraries | Python ML and NLP libraries: Panda, Numpy, Scipy, Scikit-learn, Gensim, Flair, Spacy, TF Hub | Database : MySQL(basic) | Begginer HTML/CSS | Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. | Basic OpenCV | Python - statistical learning (Sklearn) | Google (Google Docs, Google Drive, Google Slides, Google Sheets, Google Forms) | Langchain | LLM | Autogen | OpenAI GPT2 | LlamaIndex