



Tasawar Ali

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About me

A highly motivated and detail-oriented Data Science graduate with a robust academic foundation and hands-on experience in machine learning, natural language processing, and data analytics. Proven ability to lead projects from conception to completion, as demonstrated by the development of HarborHelper AI, an NLP-powered chatbot for industrial training. Eager to apply strong technical proficiencies in Python, TensorFlow, and SQL to solve complex, real-world problems. A collaborative and adaptable problem-solver, seeking to contribute to innovative teams or pursue advanced academic research, with a strong readiness to relocate for new challenges and professional growth.

Work experience

Computer Science(Data Science) Intern | School of Computing and Informatics, Albukhary International University, Malaysia | 15/04/2025 - 10/10/2025

Applied machine learning and data analysis techniques to real-world projects under the guidance of university faculty.

Gained practical experience in the full data science lifecycle, from data collection and preprocessing to model development and evaluation.

Collaborated with academics and peers to solve complex problems, enhancing both technical and teamwork skills.

Member of Student Representative Council (SRC) - Exco for Sports and School of Computer Science | Albukhary International University, Malaysia | 01/02/2023 - 30/12/2023 | Alor Setar, Malaysia

Organized and promoted sports events to enhance campus spirit and teamwork.

Represented the School of Computer Science, addressing student concerns and academic initiatives.

Acted as a liaison between students and faculty to ensure effective communication and support.

Project Leader | MilV ICT Volunteer Malaysia, Malaysia | 24/07/2022 - 24/10/2022 | Kedah, Malaysia

Led a volunteer project to teach technical skills to primary and high school students.

Designed and conducted workshops on coding, digital literacy, and problem-solving.

Empowered students with essential IT knowledge to enhance their technical capabilities.

Developed leadership, communication, and project management skills.

Education & Training

Bachelor of Computer Science with Honours (Data Science) | Albukhary International

University, Malaysia | 01/10/2022 - 13/12/2025 | Alor Setar, Malaysia

Level in EQF 6 | Address: Jln Tun Razak, Bandar Alor Setar, 05200 Alor Setar, Kedah 05200

Higher Secondary Education Certificate (Pre-Engineering) | IBA Public School Sukkur, Pakistan | 01/08/2016 - 30/10/2020 | Sukkur, Sindh, Pakistan

Level in EQF 5

Language Skills

Mother tongue(s): Urdu | Sindhi

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	C1	C2	C2	C1	C2
Punjabi; Punjabi	B1	B2	B2	B1	C1
Arabic	A2	A2	A2	A2	B2

Skills

Programming Languages: Python, R, Java (Basics) | computer programming

Machine Learning Frameworks & Libraries | TensorFlow, PyTorch, OpenCV, NumPy, Pandas, NLTK

R Programming Frameworks | ggplot2, dplyr, plotly, Shiny, tidyr, reader, Shinydashboard

Natural Language Processing (NLP) | Sentiment Analysis | Text Classification | Text Extraction

Data Handling & Analysis | Data-preprocessing | handling missing values, creating insightful reports

Large Language Models (LLMs) | Insight into GPT-3 and GPT-4 | Insight into Deep-Seek, Perplexity

Business Intelligence (BI) | MS Power BI (Dashboards, Basic Analytics), Tableau (Familiar)

Databases | SQL (Design, write, and optimize queries)

Web Development | HTML (Basics) | Loveable(AI Web Development Tool)

Social, Communication, and Organizational Skills | Problem-Solving: Strong analytical skills for troubleshooting and tailoring effective solutions. | Innovative Thinking: Forward-thinking approach dedicated to continuous process enhancement. | Communication: Proficient in distilling complex technical ideas into understandable language. | Team Collaboration: Experienced and keen collaborator in team environments. | Continuous Learning & Growth Mindset | Critical Thinking: Ability to critically assess models and results. | Project Management & Leadership: Developed through volunteer and student council roles.

Certifications

Certification of Participation - AIU Inter-School Debate Competition | Albukhary Internayional University | 01/09/2023

Certification of Participation - AIU-Perkeso Career Fair 2023 Towards Zero Unemployment

| Albukhary International University - Perkeso Malaysia | 13/05/2023

Certificate of Appointment - Student Representative Council |

Albukhary International University | 01/03/2023

Certification of Social Media Sales and Marketing: Certified in creating and optimizing social media strategies. |

Institute of Business Administration Sukkur (IBA) | 21/10/2021

Certificate of Participation - Crafting a Job Winning Resume |

Sukkur IBA University, Pakistan | 05/07/2021

Board Exam Qualification Award received for qualifying higher secondary board exam in division A. |

Board of Intermediate and Secondary Education Sukkur - Sindh, Pakistan | 10/10/2020

Certificate in Information Technology(CIT)(Short Course) |

15/01/2020

Certificate of Appreciation - Spring Family Festival 2019 |

IBA- Public School Sukkur, Sindh Pakistan | 15/12/2019

Certificate of Appreciation - LINGO STEM EXPO 2017 |

IBA - Public School Sukkur | 11/02/2017

Volunteering

MIV Excellence Award 2022: Awarded for group leader in the Malaysia ICT volunteer project. | 24/07/2022 - Current | Kedah, Malaysia

Projects

HarborHelper AI Chatbot

Created a chatbot using NLP for intent classification and context-aware responses. Designed and debugged JSON datasets for seamless integration. here the description

Handwritten Digit Recognition

Implemented a Deep Neural Network to classify handwritten digits, focusing on image preprocessing with OpenCV and model handling in Keras. here the description

Sentiment Analysis of Emotional States

Built a system to classify emotional states from text using Logistic Regression and Random Forest. Implemented visualizations like WordClouds and confusion matrices.

Cryptocurrency Market Prediction System using Reinforcement Learning

Developed a predictive model for the BTC market using a Proximal Policy Optimization (PPO) Reinforcement Learning algorithm.

Sourced and processed high-frequency hourly Bitcoin data from the Yahoo Finance API (yfinance).

Trained the model over 1 million timesteps and evaluated its performance on market trend forecasting.

Engineered the system to interpret and output key trading indicators (RSI, MACD) and overall

market sentiment, providing actionable insights.

Hobbies and Interests

Reading & Intellectual Exploration

An avid reader with a diverse interest in religious texts, scientific literature, mathematics, and poetry. This passion fuels a continuous cycle of learning, critical thinking, and appreciating diverse perspectives.

Cultural Exploration & International Travel

A globally-minded individual with firsthand experience living and traveling internationally. My undergraduate studies in Malaysia provided a unique opportunity to immerse myself in a multicultural environment, actively engaging with individuals from over 56 different countries. This has profoundly diversified my worldview, enhanced my cross-cultural communication skills, and fostered a deep appreciation for different ethnicities, traditions, and schools of thought.

Health & Fitness

Dedicated to a regular routine of weight lifting, which cultivates discipline, resilience, and a focus on long-term growth and well-being.