MUHAMMAD EHTESHAM BAHOO

SOFTWARE DEVELOPER

PROFESSIONAL SUMMARY

Graduated with a BSc in Information Technology from Middlesex University Dubai at 17. Began a professional career as an NLP developer, followed by 1.5 years as a freelance web developer. Currently pursuing a Master's in ISSE at Ritsumeikan University, focusing on predictive modeling in cloud microservices.

CONTACT

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Portfolio: https://ehteshambahoo.github.io/Portfolio-Sham/

WORK EXPERIENCE

NLP Chatbot Developer August 2023 - December 2023

Habeebi Global | Dubai, United Arab Emirates

- Developed an AI chatbot using RASA to streamline ticket booking, improving customer interactions and satisfaction.
- Collaborated with cross-functional teams to design the chatbot's architecture, integrated machine learning techniques, and continuously optimized its performance based on user feedback and data analysis.
- The chatbot supported thousands of customers and contributed to over 7,000+ ticket sales through the website

Web Application Developer November 2023 - Ongoing

Social Intelligence Lab, Ritsumeikan University Osaka, Japan

- Developing a web-based application for experimental studies that records user audio and engages users in an interactive guessing game.
- Leveraging AI to analyze user input, interpret audio, and generate guesses based on user-provided riddles.
- Supporting experiments in social intelligence and language translation research.

ACADEMIC HISTORY

Ritsumeikan University OIC | September 2025 - Ongoing

Master's in Information Science and Engineering

- Studying how Machine Learning can be used to predict CPU overutilization in Cloud Microservices.

Middlesex University Dubai | November 2022 - July 2023

Bachelor of Science in Information Technology

- Graduated Top of the Class with Distinction
- 100/100 Score in Web-app development module
- Graduated at the age of 17.

Aptech Learning Ltd. | January 2022 - March 2022

Advanced Diploma in Software Engineering(ADSE)

- Graduated with a 75% Grade
- Nominated Student of the Year
- 6 Capstone Projects each receiving distinction

CERTIFICATION & TEST SCORES

IELTS Academic(2023)

Score: 8.0

Mathematics for Machine Learning: Linear Algebra(2025)

Coursera: Imperial College London

IBM Data Science Professional Certificate(60% Complete)

Coursera: IBM

Data Analysis with R Programming(2025)

Coursera: Google

PROJECTS

Football Players Stats(2024-2025) Visualization & Best XI Data Analysis Project

#DataAnalysis #Python #Pandas #NumPy #Matplotlib #Seaborn #FootballAnalytics #SportsData #PredictiveModeling

- Developed a football player stats analysis tool using Python (Pandas, NumPy) to evaluate 2024-25 season performance.
- Designed interactive visualizations with Matplotlib and Seaborn, providing insights into player comparisons, team performance, and statistical trends.
- Simulated national team match outcomes using player data, enhancing predictive analysis for potential game results.

Data Analysis European Football visualization report

#BusinessIntelligence #DataAnalysis #Tableau #DataVisualization #FootballAnalytics #PerformanceMetrics #Dashboards #DataInsights

- Utilized business intelligence tools like Tableau to gather and analyze data on European football teams.
- Created interactive visualizations and dashboards showcasing performance metrics, player statistics, and team rankings.
- Produced a comprehensive report presenting insights.

Fifa WorldCup Data Analysis (1930-2026)

DataAnalysis #Python #DataScraping #MachineLearning #PredictiveModeling #SportsAnalytics #DataCleaning #StatisticalAnalysis

- Developed a comprehensive FIFA World Cup data analysis tool by scraping and processing historical match data from 1930 to 2022 using Python, enabling in-depth statistical insights into tournament trends.
- Designed predictive models to forecast the 2026 World Cup outcomes, utilizing machine learning techniques to simulate match results from group stages to the final, enhancing strategic planning capabilities.
- Collaborated on data cleaning and transformation processes, ensuring the accuracy and reliability of datasets for analysis and modeling, which improved the precision of predictive outcomes.

Tic8m8 Conversational AI Bot

#AIChatbot #Rasa #Python #Botfront #WebchatUI #EventManagement #TicketBooking #NLP #BackendDevelopment #UserExperience

- Developed an AI-powered chatbot using Rasa to provide event information and facilitate ticket booking, enhancing user engagement and streamlining the ticket purchasing process.
- Integrated Botfront Webchat UI for a user-friendly, interactive experience, enhancing accessibility for event attendees.
- Implemented backend functionalities in Python to handle event listings and details, ensuring accurate and up-to-date information delivery to users.

Greenhouse Gas Emission Prediction Model

MachineLearning #DataAnalysis #Python #DataVisualization #EnvironmentalScience #FeatureEngineering #PredictiveModeling

- Developed a machine learning model to predict CO_2 emissions by analyzing country-specific data, including economic indicators, population statistics, energy consumption, and land use patterns.
- Engineered features and performed data visualization to identify key factors influencing emissions, utilizing Python libraries such as Pandas, NumPy, Seaborn, and Matplotlib.
- Optimized Random Forest model performance by conducting hyperparameter tuning and cross-validation, enhancing predictive accuracy for environmental policy insights.

SKILLSET

- Python (Django, Flask, Spacy, NTLK, TensorFlow, Rasa, Numpy, Seaborn, Matplotlib)
- JavaScript (Vue, React)
- PHP
- R Programming
- Java
- Database management (SQL, MongoDB)
- Report Writing
- Data Analytics (Tableau)
- Math (Calculus, Statistics, Linear Algebra)