

Omar Riyaz

Portfolio: omarriyaz.vercel.app

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EDUCATION

- University of Bath** Bath, UK
Masters of Science Data Science - Exp. Distinction
Courses: Statistics, Machine Learning, Applied Data Science, Bayesian Machine Learning, Reinforcement Learning
2024 - 2025
- Heriot-Watt University** Edinburgh, UK
Bachelors of Science (Hons.) Computer Science - 2:1
Courses: Data Visualization, Conversational Agents, Intelligent Robotics, Machine Learning, Data Structures and Algorithms
2020 - 2024
Dissertation Project: Development of a Chatbot for Learning Assistance Using NLP and Machine Learning

EXPERIENCE

- Automation Anywhere** Dubai, UAE
Software Engineering Intern
Jul 2021 - Sep 2021
 - Java Development:** Developed and Integrated Java modules for the Automation360 cloud platform
 - Cloud Migration:** Contributed to the migration of 20 on-premises bots to the cloud, improving scalability and reducing maintenance for business processes.
 - Bot Development:** Created a custom bot for Heriot-Watt University's student portal, automating exam result notifications and re-sit guidance, streamlining information delivery for students.
 - Quality Assurance:** Collaborated with the QA Team to implement testing methods, ensuring adherence to user requirements.
- Paramount Computer Systems** Dubai, UAE
Cyber Security Intern
Jun 2023 - Aug 2023
 - Cyber Security:** Explored various cyber security frameworks and Microsoft's security solutions, including Azure and Microsoft Defender.
 - Capestone Project:** Implemented Conditional Access, cloud security, Data Loss Prevention policies, and Network Security Groups in Azure.
- Heriot-Watt University** Edinburgh, UK
Teaching Assistant
Dec 2023 - May 2024
 - Python and SQL Assistance:** Assisted for the Software Development and Databases courses, guiding students through coding challenges, debugging, and IDE setup for over 80 students.
 - Python Coding Tutor:** Tutored at the Code Clinic, a coding support program, offering tailored guidance on various programming issues.
- RBC Bluebay** London, UK
Work Experience Program
Jun 2024 - Jun 2024
 - Trading and Portfolio Management:** Gained in depth exposure to business operations and strategic decision making by observing multiple teams on active trading floors at the London office of RBC BlueBay.
 - Quant and Software Development Teams:** Engaged with Quant teams and Software Developers to learn about developing proprietary software and machine learning models for stock selection.
- Clean Blast International** Dubai/Remote
Software Developer
Jul 2024 - Aug 2024
 - Python Web App:** Developed a custom application to automate the extraction, cleaning and visualization of sales data, streamlining data processing for over 20,000 transactions.
 - Data Visualization:** Built an interactive dashboard within the app using Plotly and Matplotlib, displaying key performance indicators to provide real time insights into company performance, boosting their decision making efficiency

PROJECTS

- Song popularity predictor (Machine Learning, TensorFlow, Keras, PyTorch, Pandas, Python):** Collaborated on a Machine Learning project to develop a predictive model for song popularity using Spotify data. Achieved 85% accuracy with Neural Networks while cleaning and preparing a dataset of over 10,000 songs. Implemented K-Nearest Neighbors and Decision Trees, optimizing performance and increasing predictive accuracy by 15%
- COVID-19 Vaccination Effects Visualization (D3.js, Javascript, HTML, CSS):** Led a data visualization project on a COVID-19 vaccination dataset, ensuring data accuracy for over 50,000 records using Pandas and NumPy. Developed an interactive dashboard with diverse visualizations using HTML, CSS, JavaScript, and D3.js.
- Impact of Narratives on Human-Robot Interaction (NLP, LLM, Python, Kotlin):** Led an 8-member team in a research study on the impact of narratives on human-robot interaction using a Furhat robot with an OpenAI LLM, conducting data analysis in Python and developing the virtual environment in Kotlin; the project was recognized for submission to the HAI conference, reflecting its significant contributions to the field.

HONORS AND AWARDS

- Research Poster Paper Published in Human-Agent Interaction Conference - September, 2024
- Deputy Principals Award for Academic Excellence: Heriot Watt University - 2021, 2022, 2023
- Recipient of The Global Leaders Scholarship: University of Bath - August, 2024
- Owner of a Music Production YouTube Channel with over 30,000 subscribers
- Produced multiple songs, with over 100,000 streams on all platforms