Omar Riyaz

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EDUCATION

University of Bath — Bath, UK
Masters of Science - Data Science — *2024 - 2025*

Courses: *Statistics for Data Science, Machine Learning, Software Technologies for Data Science, Applied Data Science*

Heriot Watt University — Edinburgh, UK
Bachelors of Science (Hons.) - Computer Science — *2020 - 2024*

Courses: *Data Visualization, Conversational Agents, Intelligent Robotics, Machine Learning, Data Structures and Algorithms*

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 Package 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 cybersecurity frameworks and Microsoft's security solutions, including Azure and Microsoft 365, enhancing knowledge of these technologies.
- **Capestone Project**: Implemented Conditional Access, cloud security, DLP policies, and NSGs 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 100 students.
- **Java 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 — *Jul 2024 - Jul 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 RBC BlueBay Global Asset Management.
- **Quant and Software Development Team**: Engaged with Quant teams and Software Developers to learn about developing proprietary software and machine learning models for stock selection, improving analytical skills.

Clean Blast International — Dubai/Remote
Software Developer — *Aug 2024 - Present*
- **Python Application**: Developed a custom Python 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 displaying key performance indicators to provide real-time insights into company performance, boosting 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, achieving 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, and developed an interactive dashboard with diverse visualizations using HTML, CSS, JavaScript, and D3.

- **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 interactiong 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