Shivan Ramharry

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Summary

Proactive and detail-oriented Computer Science Graduate from the University of York, equipped with a robust technical foundation in software engineering, AI/ML, and advanced data analytics. Experienced in building full-stack applications using Java or Python and developing sophisticated deep learning models, including a RoBERTa-based multitask learning framework for complex NLP tasks. Proficient in the end-to-end data science lifecycle from exploratory data analysis and feature engineering to deploying predictive models. Eager to contribute strong problem-solving skills and expertise in a challenging entry-level role in the tech industry.

Experience

University of York Vietnamese Society | York, UK
Marketing Officer | 11/2024 - 06/2025
• Managed strategic collaborations and sponsorships to enhance society's presence.
• Led website development to improve outreach and engagement.
• Implemented marketing efforts to promote events, attract members, and strengthen the brand.

Supertrack | Ballito, KwaZulu-Natal
Freelance Developer (on vacations) | 11/2021 - 08/2024

- Designed & Implemented: Developed a custom Java/SQL application to track sales and orders, optimizing Supertrack's operations and improving data accuracy.
- User Experience: Enhanced the user interface for ease of use, improving the overall user experience and increasing system adoption among staff.
- Website Development: Contributed to the creation of the company website focused on showcasing Supertrack's products and services, contributing to the online presence and brand awareness.

Skills

Agile, AI, APIS, Analysis skills, Computer Vision, Communication skills, CSS, Data Visualization, Django, Docker, English, Figma, GIT, HTML, Java, Jupyter Notebook, Machine learning, Microservices Architecture, Microsoft excel, MySQL, NLP, Object Oriented Programming, PostgreSQL, Python, PyTorch, Risk management, Software development, SQL, Tableau, TensorFlow, Time management, WordPress

Education

University of York | York, UK
B.Eng. (Hons) Computer Science | 06/2025
Relevant Coursework: Software Foundations, Object-Oriented Data Structures & Algorithms, Mathematical Foundations, Formal Languages & Automata, Computing Systems, Operating Systems, Security, & Networking, Advanced Computer Systems, Software & Systems Engineering, Machine Learning & Optimisation, Introduction to Data Science, Probabilistic & Deep Learning, Human-Computer Interaction.

- Gained hands-on experience in designing scalable software, optimising algorithms, investigating qualitative methods, conducting data analysis and applying AI/ML techniques.
- **Dissertation:** *Deep Multitask Learning for News Content Disagreement Detection and Emotion Recognition* - Developed a RoBERTa-based deep learning model using NLP and multitask learning to analyse news content.
- **Activities:** Committee Member (Marketing Officer), University of York Vietnamese Society.

Certificates

Google Advanced Data Analytics Professional Certificate

Technical Projects

- **Deep Multitask Learning for News Content Disagreement Detection and Emotion Recognition:** Developed a deep learning model using RoBERTa to detect conflicting perspectives in news articles and analyse underlying emotions,

applying NLP and multitask learning techniques. [GitHub link](#)

- **Google ADA Capstone: Salifort Motors HR Analysis**: Developed a predictive machine learning solution for the Google ADA Capstone to identify key drivers of employee attrition at Salifort Motors. Executed an end-to-end workflow in Jupyter Notebooks that included extensive data cleaning, feature engineering, and exploratory data analysis (EDA). By training and evaluating a Random Forest classification model, I derived actionable insights to support data-driven strategies for improving employee retention. [Github Link](#)
- **Bank Customer Data Analysis**: Developed a Jupyter Notebook project to enhance risk assessment and retention strategies using data normalisation, exploratory analysis, and modelling. Implemented code for comprehensive data processing and visualisation to extract actionable insights. [Github link](#)
- **Image Classification with Deep CNN**: Designed and trained a deep Convolutional Neural Network (CNN) for classifying images in the Flowers-102 dataset. Utilised cross-entropy loss, AdamW optimiser, and data augmentation techniques to improve model accuracy and generalisation. [Github link](#)