

RYAN M. GICHURU

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An proactive and reliable student pursuing a Bachelor's in Artificial Intelligence and Data Science at the University of Northampton. Equipped with a strong foundation in programming, data analysis, and machine learning, I am seeking opportunities to apply my knowledge and skills. With a keen interest in research and a passion for Artificial Intelligence, I am confident in my ability to contribute to your organization's success.

PROJECTS-[\[github.com/ryantigi254\]](https://github.com/ryantigi254)

MAY 2024 – AUGUST 2024

RESEARCH ASSISTANT, KNOWLEDGE EXCHANGE AND ENTERPRISE PROGRAMME

- Collaborating with GXO on innovative AI projects funded by the Knowledge Exchange and Enterprise Programme, utilizing k-means clustering and decision tree algorithms to analyze data and identify trends and opportunities for operational efficiency in warehouse operations.
- Conducting comprehensive reports that review the current state of the logistics industry, various AI implementations, and applications, employing techniques such as **XGBoost** and **Mathematical Modeling, Numerical Experiments** to evaluate potential AI systems.
- Using open datasets and implementing AI-driven optimization models to find the best AI systems that meet both general and specific company needs in logistics.

JANUARY 2024 – PRESENT

RESEARCH COORDINATOR, AI FOR INDEPENDENT LEARNING AND AI-ASSISTED LEARNING REVISION (URBAN PROJECT)

- Pioneering the development of an AI-powered chatbot for enhancing independent learning and revision in digital environments like NILE, leveraging NLP techniques, machine learning, and large language model (LLM) architectures.
- Conducting data collection, analysis, and stakeholder engagement to gather requirements and align with end-user needs, ensuring the chatbot solution effectively supports coursework summarization, interactive Q&A, and personalized learning insights.
- Prototyping and iterative testing of the chatbot solution, while ensuring ethical and privacy-conscious handling of student data through anonymization and adherence to data protection regulations.

EXPERIENCE-[\[ryangichuru.com\]](https://ryangichuru.com)

JUNE 2024 – PRESENT

STUDENT AMBASSADOR, INTEL CORPORATION

- Promoting learning, sharing, and collaboration within developer communities by participating in intel's student ambassador programme.
- Enhancing skills in oneAPI and exploring cutting-edge Intel hardware and software to drive the development of an open, standards-based programming model.
- Engaging in projects that utilize Intel Developer Cloud, building and deploying AI models, and creating technical articles and tutorials to share knowledge and promote the program.

JUNE 2024 – PRESENT

FOUNDING AI ENGINEER, BARBAH GAMES

- Spearheading the development of AI solutions for gaming applications, leveraging machine learning and AI techniques.
- Leading initiatives in Compute, Digital Twins, Generative AI UI-UX, and Language Translation to enhance gaming experiences.
- Collaborating with cross-functional teams to integrate AI models into BARBAH Games' VR and gaming infrastructure.
- Conducting research on advanced AI algorithms and overseeing the deployment and maintenance of AI models to ensure optimal performance and user engagement.

MAY 2024 – PRESENT

CAMPUS AMBASSADOR, FACIA AI, LONDON

- Selected for Facia AI's prestigious Campus Ambassador Program, representing the company within the academic community.
- Spearheading awareness campaigns and educational initiatives to promote Facia's liveness detection and facial recognition solutions.
- Creating engaging content like blog posts, social media stories, multimedia materials to showcase Facia's impact against cybercrime.

NOVEMBER 2023 – PRESENT

RESEARCH ASSISTANT, UNIVERSITY OF NORTHAMPTON, UNITED KINGDOM

- Involved in in-depth research, data collection, data cleaning, analysis, and visualization (using Pandas, Numpy, Seaborn, Matplotlib) to identify trends, contributing to current and future educational strategies within the university.

- Focused on AI literacy enhancement by delivering comprehensive workshops and presentations, including presenting at three conferences where the project was recognized for its outstanding contribution to AI in education, facilitating effective knowledge sharing among faculty and students.
- Involved in prompt engineering and fine-tuning a customized GPT model through data analysis and output testing to ensure accurate and desired results, leveraging my expertise in AI and machine learning.

EDUCATION

SEPTEMBER 2023 – PRESENT

BACHELOR'S IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (EXPECTED GRADUATION YEAR 2026)

UNIVERSITY OF NORTHAMPTON, NORTHAMPTON, UNITED KINGDOM

Year 1 modules and grades: -

- | | |
|---|---------------------------------------|
| ○ Problem Solving and Programming: A+ | ○ Mathematics for Computer Science: B |
| ○ Software Engineering Fundamentals: A+ | ○ Computer Communications: B |
| ○ Computer Systems: B+ | ○ Web Development: A+ |

JULY 2024 – SEPTEMBER 2024

GENERATIVE AI BOOTCAMP, GETSEEN VENTURES

NORTHAMPTON, UNITED KINGDOM

An intensive 6-week program focused on cutting-edge Generative AI technologies and applications. Key components included:

- Weekly expert-led sessions on advanced topics such as Large Language Models (LLM) and Retrieval-Augmented Generation (RAG)
- Extensive self-learning materials for in-depth exploration of covered topics
- Team-based development of a real-world business case with potential for startup implementation
- Practical application of Generative AI concepts to solve industry-relevant problems
- Networking opportunities with industry experts and fellow entrepreneurs

Skills developed:

- Deep understanding of Generative AI and its real-world applications
- Practical skills in building innovative AI solutions
- Collaborative project development in a startup-like environment
- Business case analysis and development in the AI sector

TECHNICAL SKILL

- **Python: Data Analysis** using NumPy, Pandas, Financial Modeling [Advanced].
- **Machine Learning:** and Statistical Modelling using Scikit-Learn, Tensorflow and PyTorch [Basic]
- **C++:** Software Development principles [Intermediate].
- **Productivity Tools:** Proficient in Notion & Anytype for Project Organization and Management.
- **Quantitative Research:** - Statistical Analysis Probabilistic Modelling [Intermediate].
- **Data Visualization:** using Matplotlib and Seaborn [Basic].
- **Database Management:** using MySQL, Big Query & Oracle [Advanced].
- **HTML, CSS & JavaScript: Web Development.** [Advanced]
- **Pine Script v5:** Proficient -Indicator and Strategy Development
- **Spreadsheet Management:** [Advanced] - Excel & Google Sheets; Complex Computations, Advanced Formulas, and Custom Scripts.

SOFT SKILLS

- Critical Thinking, Fast Problem Solving, Reliable Leadership, Teamwork
- Ambitious, Proactive, Resilient, Succinct Communication

CERTIFICATIONS

◆ Certificate of Completion

- I completed the Pandas Course for advanced data manipulation on **Kaggle**.

ACHIEVEMENTS AND RECOGNITIONS

◆ UON AI Society President

- Currently leading the society into a new era of innovation and collaboration, expanding our reach and impact within and beyond the University through strategic leadership and key partnership initiatives.

◆ UON AI Society Treasurer

- Spearheaded financial management and fundraising initiatives, significantly boosting the society's budget by 52%, and enabling the execution of key projects and events.

◆ Knowledge Exchange and Enterprise Programme-Research Assistant

- Presentation of findings to the Lead Engineer, Artificial Intelligence at GXO, with a blog post mention on the AI course website.