

# RYAN M. GICHURU

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An ambitious and proactive 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)

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.
- Conducting data collection, analysis, and stakeholder engagement to gather requirements and align with end-user needs.
- Prototyping and iterative testing of the chatbot solution, leveraging NLP, machine learning, and LLM techniques for core functionalities like coursework summarization, interactive Q&A, and personalized learning insights (ongoing).
- Ensuring ethical and privacy-conscious handling of student data through anonymization and adherence to data protection regulations (ongoing).

## EXPERIENCE

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+
- Software Engineering Fundamentals: A+
- Computer Systems: B+
- Mathematics for Computer Science: B
- Computer Communications: B
- Web Development: A+

## 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, Problem Solving, Leadership, Teamwork
- Ambitious, proactive, Resilient

## CERTIFICATIONS

### ◆ Certificate of Completion

- I completed the Pandas Course for advanced data manipulation.

## 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.