

# 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 – PRESENT

### 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)

SEPTEMBER 2024 – PRESENT

### STUDENT CAREERS COACH, UNIVERSITY OF NORTHAMPTON

- Providing personalized career support to students by offering guidance on CV writing, job applications, and interview preparation.
- Conducting individual coaching sessions and workshops to help students recognize their strengths and connect with career opportunities.
- Assisting students in understanding and improving the skills needed for the recruitment process, including organizing practice interviews, self-assessments, industry-led events, and webinars.

- Equipping students with practical tools and knowledge to present themselves confidently to potential employers and make informed career decisions.

#### **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**

- **Languages:** Python, C++, Javascript
- **Machine Learning:** Scikit-Learn, Tensorflow, PyTorch, XGBoost.
- **Data Analysis:** NumPy, Pandas, Matplotlib and Seaborn.
- **Quantitative Research:** - Statistical Analysis Probabilistic Modelling.
- **Database Management:** using MySQL, Big Query & Oracle.
- **Web Development:** HTML, CSS & JavaScript
- **Tools:**-Git, GitHub, Docker, Excel & Google Sheets.

### **SOFT SKILLS**

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

### **CERTIFICATIONS**

#### **◆ Kaggle Certificate in Pandas**

- Proficiency in advanced data manipulation and analysis using Pandas.

#### **◆ Artificial Intelligence Foundations: Neural Networks (National Association of State Boards of Accountancy)**

- Gained foundational skills in neural networks and deep learning.

#### **◆ Azure Machine Learning Development: Part 1 (LinkedIn Learning)**

- Practical skills in using Microsoft Azure Machine Learning services.

#### **◆ Big Data in the Age of AI (National Association of State Boards of Accountancy)**

- Developed knowledge in big data analytics and its role in AI applications.

#### **◆ Machine Learning Foundations: Statistics (National Association of State Boards of Accountancy)**

- Strengthened understanding of statistical analysis in machine learning algorithms.

### **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.