

RYAN M. GICHURU

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Enthusiastic first-year student in Artificial Intelligence and Data Science, I am deeply engaged in leveraging AI and data analytics to solve complex problems and enhance efficiency. With a foundation in leadership and academic excellence, I actively apply cutting-edge research to practical challenges, driving the advancement of AI solutions with a relentless pursuit of knowledge and innovation.

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

JANUARY 2024 – PRESENT

STUDENT RESEARCHER, AI FOR INDEPENDENT LEARNING AND AI-ASSISTED LEARNING REVISION (URBAN PROJECT)

- Currently leading the Urban Project as a Student Researcher, pioneering the concept and driving data collection, analysis, and stakeholder communication to enhance AI-assisted learning.
- Actively involved in prototyping of the chatbot which will be the proposed solution

SEPTEMBER 2023 – PRESENT

CO-LEADER, DESIGNING A COMPREHENSIVE ZOO SOFTWARE SUITE (COURSE PROJECT)

- Co-led the development of a mock comprehensive zoo management software suite, emphasizing software engineering, data management, and ethical standards.
- Collaborating with a team to create solutions that meet real-world needs, merging theoretical knowledge with practical application(mock).

JANUARY 2023 – PRESENT

FINANCE EXPERIENCE, INVESTMENT PORTFOLIO STRATEGIST

- Utilized quantitative analysis to manage three global investment portfolios, focusing on maximizing returns through liquidity cycle analysis and performance ratios (Omega, Sortino, Sharpe).
- Applied risk management techniques (Risk Parity, Kelly criterion) and used spreadsheet software for portfolio management.
- Currently developing a Machine Learning model to select profitable stocks, aiming to enhance data-driven decision-making and reduce emotional bias (Sentiment analysis, Transformers).

- Currently applying Time-Series Analysis (ARIMA) to analyze cryptocurrency and stocks, enhancing portfolio strategy development.

EDUCATION

SEPTEMBER 2023 – PRESENT

BACHELOR'S IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (YEAR 1 - ONGOING)

UNIVERSITY OF NORTHAMPTON, NORTHAMPTON, UNITED KINGDOM

Year 1 modules and grades: -

Problem Solving and Programming: A+

Software Engineering Fundamentals: A+

Computer Systems: B+

EXPERIENCE

NOVEMBER 2023 – PRESENT

RESEARCH ASSISTANT, UNIVERSITY OF NORTHAMPTON

- Focused on AI literacy enhancement through the development and analysis of targeted projects.
- Involved in in-depth research, data collection and analysis to identify trends, contributing to current and future educational strategies.
- Delivering comprehensive workshops and presentations for effective knowledge sharing among faculty and students.

JUNE 2023 – JANUARY 2024

WAREHOUSE OPERATIVE, WINCANTON (THE WHITE COMPANY)

- Showcased efficiency in meeting daily and weekly quotas.
- Balanced speed and precision to ensure my tasks are completed, effectively and efficiently.
- Took on extra tasks such as tidying up, arranging trolleys, and organizing scanners.

TECHNICAL SKILL

- **Python: Data Analysis** using NumPy, Matplotlib, Financial Modeling [Advanced].
- **Machine Learning:** and Statistical Modelling using Scikit-Learn and PyTorch [Basic]
- **C++:** Software Development principles [Intermediate].
- **Data Visualization:** using Matplotlib and Pandas, Seaborn [Advanced].
- **Database Management:** using MySQL, Big Query & Oracle [Advanced].
- **HTML & CSS:** Web Development. [Advanced]

- **Productivity Tools:** Proficient in Notion & Anytype for Project Organization and Management.
- **Quantitative Research:** - Statistical Analysis Probabilistic Modelling [Intermediate].
- **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 and Problem Solving
- Leadership and Teamwork
- Ambitious and proactive.

ACHIEVEMENTS AND RECOGNITIONS

◆ Certificate of Completion

- I completed the Pandas Course for advanced data manipulation.

ACHIEVEMENTS AND RECOGNITIONS

◆ AI Society Treasurer

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

◆ CO-Group Leader

- Co-led a project team to develop a comprehensive zoo management software suite for a course assignment, earning an A+.

VOLUNTEER EXPERIENCE

FEBRUARY 2023 - PRESENT

BLOG POST CREATOR, LEARNING TECHNOLOGY TEAM, UNIVERSITY OF NORTHAMPTON

- I assist in creating and disseminating blog posts about technology projects, including AI initiatives at the university, and contribute to data collection through surveys, interviews, and study groups to support research and information sharing.

BLOG POST CONTRIBUTOR, TECHNOLOGY, PEDAGOGY & EDUCATION ASSOCIATION(TPEA)

- Creating blog posts, featuring information on projects currently being done in the university and using the platform for dissemination of projects done in and around technology.

CASHIER, BARNARDO'S

- Managed store keeping and merchandising for a charitable cause. Including managing the cash register.