

# Ryan Mutiga Gichuru

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## EDUCATION

**University of Northampton**, Northampton, UK 2023 - 2026

Bachelor's in Artificial Intelligence and Data Science (Expected Graduation: 2026)

**Relevant Courses:** Problem Solving and Programming (A+), Software Engineering Fundamentals (A+), Computer Systems (B+), Mathematics for Computer Science (B), Computer Communications (B), Web Development (A+)

**Generative AI Bootcamp**, GetSeen Ventures Jul 2024 - Sep 2024

6-week intensive program on cutting-edge Generative AI technologies and applications

**AI and GPT Bootcamp**, Encode Club Aug 2024 - Oct 2024

8-week program focusing on AI applications and development

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## TECHNICAL SKILLS

**Languages:** Python (Advanced), C++ (Intermediate), JavaScript (Advanced)

**Data Analysis:** NumPy, Pandas, Matplotlib, Seaborn

**Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, XGBoost, NLP

**Web Development:** HTML, CSS, JavaScript, React

**Database Management:** MySQL, BigQuery, Oracle

**Tools:** Git, Excel, Google Sheets, Pine Script v5

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## PROJECTS

**AI-Powered Chatbot for Independent Learning**, URBAN PROJECT Jan 2024 - Present

Research Coordinator

- Developing an AI chatbot using NLP and LLM architectures to enhance learning in digital environments
- Conducting data analysis and stakeholder engagement to align chatbot features with user needs
- Implementing ethical data handling practices and adherence to data protection regulations

**Warehouse Optimization with AI**, Knowledge Exchange and Enterprise Programme May 2024 - Jul 2024

Research Assistant

- Collaborated with GXO on AI projects to improve operational efficiency in warehouses
- Utilized k-means clustering and decision tree algorithms for data analysis and trend identification
- Implemented AI-driven optimization models to evaluate and recommend AI systems for logistics

**Study Smart: AI Literacy Initiative**, University of Northampton Nov 2023 - Jul 2024

Research Assistant

- Conducted comprehensive data analysis to enhance AI literacy among staff and students
- Developed and fine-tuned a custom GPT model for analyzing project data
- Presented findings at three conferences, showcasing contributions to AI in education

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## EXPERIENCE

**BARBAH Games** Jun 2024 - Present

Founding AI Engineer

- Spearheading AI solutions development for gaming applications
- Leading initiatives in Compute, Digital Twins, and Generative AI UI/UX
- Collaborating with cross-functional teams to integrate AI models into VR gaming infrastructure

**Intel Corporation** Jun 2024 - Present

Student Ambassador

- Promoting learning and collaboration within developer communities
- Enhancing skills in oneAPI and exploring cutting-edge Intel hardware and software
- Organizing and delivering hands-on training sessions on AI and HPC

**Facia AI**, London  
Campus Ambassador

May 2024 - Present

- Spearheading awareness campaigns for Facia's liveness detection and facial recognition solutions
  - Creating engaging content to showcase Facia's impact against cybercrime
  - Representing the company at various campus events and initiatives
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## LEADERSHIP & ACHIEVEMENTS

- **President**, UON AI Society: Leading initiatives to expand the society's impact and foster innovation
  - **Treasurer**, UON AI Society: Increased society budget by 52% through strategic financial management
  - **Presenter** at Merged Futures VI conference, showcasing AI literacy research findings
  - **Co-author** and presenter "Study Smart: Staff and students co-constructing AI literacy at UON" showcasing our research at the UON Learning Teaching and Conference
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## CERTIFICATIONS

- **Kaggle**: Certificate in Pandas for advanced data manipulation
  - **NASBA**: Artificial Intelligence Foundations: Neural Networks Gained foundational skills in neural networks and deep learning.
  - **LinkedIn Learning**: Azure Machine Learning Development: Practical skills in using Microsoft Azure Machine Learning services.
  - **NASBA**: Big Data in the Age of AI Developed knowledge in big data analytics and its role in AI applications.
  - **NASBA**: Machine Learning Foundations: Statistics Strengthened understanding of statistical analysis in machine learning algorithms.
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## EXTRACURRICULAR ACTIVITIES

- **Student Careers Coach**, University of Northampton: Providing career support and guidance to fellow students
- **Volunteer**, Friendship International Students and Hosts (FISH): Assisting with weekly events
- **Blog Post Creator**, Learning Technology Team, University of Northampton: Disseminating information about AI initiatives
- **Blog Post Contributor**, University of Northampton AI Course Blog: Sharing insights on university AI and technology projects