

Immanuella Duke

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EDUCATION

Carnegie Mellon University
MSc. Information Technology
(Applied Machine Learning)

Kigali, Rwanda
Expected Date of Graduation: Jun 2021

Ashesi University
BSc. Computer Science

Berekuso, Eastern Region
Date of Graduation: Jun 2019

ACHIEVEMENTS/AWARDS

*President's Award, Ashesi University	Jun 2019
Graduated Summa Cum Laude, Ashesi University	Jun 2019
2 nd place Hackathon, Ashesi University	Dec 2017

WORK EXPERIENCE

Goodyear Tire and Rubber Company – Akron, Ohio

May 2019 – Jul 2019

Machine learning intern

- Implemented robust algorithms using Python to generate the best features from large datasets for a machine learning project
- Developed an ensemble of machine learning models that reduced runtime within a simulator by 50% compared to a previous proprietary software

Ashesi University - Eastern Region, Ghana

Sept 2016 – May 2017

Programming tutor

- Organized tutorial sessions in Python programming to help first-year students improve their grades and build software applications
- Clearly articulated new programming concepts to students and enabled them to gain a better understanding of programming

TECHNICAL PROJECTS

Machine Learning Projects

Sept 2019 – Dec 2019

- Performed full statistical analysis in Python on titanic data, wine data and loan prediction datasets
- Built and optimized linear and nonlinear models for these datasets to obtain the best accuracies
- Designed clear and useful visualisations to communicate project results to a non-technical audience

CO-CURRICULAR ACTIVITIES

Carnegie Mellon University – Kigali, Rwanda

Dec 2019 – Present

Women in Tech President

- Organised personal-development activities such as vision board sessions and leadership trainings for CMU women
- Organised outreaches in local high schools to inspire students to pursue careers in computer science

Tech Era – Accra, Ghana

Sept 2016 – Dec 2017

Volunteer

- Tutored students in Junior High Schools in basic computer skills, resulting in 25 students improving their computer literacy
- Organised exhibitions and exams for students to test their knowledge in basic computing resulting in 15 of these students continuing to an advanced class in Robotics

SKILLS

Data science skills

- Data analytics and data modelling with large datasets
- Data visualisations using Python (LinkedIn learning certificate)

Programming skills

- Proficient in Java, Python (and ML libraries)
- Git and version control

REFERENCES

*President's Award – Awarded to a student who embodies Scholarship, Citizenship and Leadership