

Felix Hirwa Nshuti

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SUMMARY

Passionate Computer engineer with a strong background in Deep learning, computer vision, and natural language processing. Skilled in Python, Jax, PyTorch, ivy, and various ML libraries. Excellent open source contribution and community interaction and currently in early research career. My interests lie most in Operating Systems, Systems Programming, Programming Languages and Compilers, and Machine Learning. Seeking challenging role to develop optimal and cutting-edge technologies.

SKILLS

Programming Languages: Python, C/C++, ARM Assembly, SQL, Java

Deep Learning Frameworks: PyTorch, Jax, TensorFlow, Paddle, Ivy

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git/GitHub, Docker

Natural Languages: English (fluent), Kinyarwanda (Proficient)

PROJECTS

Scaling Deep learning backends with sktime

May 2024 – Aug 2024

Machine Learning with time Series

Python, PyTorch, TensorFlow, Darts, CI/CD

- Submitted under the Google Summer of Code, sktime
- [Project Link](#)
- Added new classification models to sktime using PyTorch (GRU and GRU-FCNN Classifiers)
- Helped in migration of MCNN classifier from sktime-dl to sktime main repository
- Added integration for darts regression models adapter.

EXPERIENCE

Contributor

May 2024 – Aug 2024

Google Summer of Code, sktime

Remote, Remote

- Contributed to sktime a unified ML library for Time Series(Under Google Summer of Code)
- Scaled Deep Learning backends with sktime, mostly worked with Darts and PyTorch
- Implemented an adapter for darts regression models in sktime.
- Presented my project progress at weekly mentorship meetings
- Community engagement through sprints and discord chats.

Machine Learning Engineer

June 2023 – October 2023

Unify

London, United Kingdom

- Maintained and developed the Ivy(A unified Deep Learning framework).
- Lead on the conformity of the Array API standard with Ivy.
- Lead and Maintained the Numpy Frontend of Ivy.
- Community engagement and providing mentorship to contributors.

Machine Learning Engineer Intern

September 2022 – June 2023

Unify

London, United Kingdom

- Maintained and developed the Ivy(A unified Deep Learning framework).
- Researched and worked on adding features to Ivy.
- Presented my research findings at weekly meetups with my supervisor.
- Community engagement through a reading group.

Volunteering Developer*Unify*

- Contributed to Ivy development.

July 2022 – September 2022

*London, United Kingdom***Apprentice Software Developer***Rohde & Schwarz*

- Developed Cybersecurity test software by using some automation libraries of Python like Selenium.
- Helped the team in following agile methodologies to deliver quality software over time.
- Presented the final product to the customer and delivered the product to production.

April 2021 – May 2021

*Kigali, Rwanda***VOLUNTEERING**

Mentor*DeepLearning.AI*

- Assisted Learners taking the TensorFlow Developer Professional Certificate on Coursera.

August 2021 – April 2023

*California, United States***Mentor***AI Planet*

- Facilitated learners who were taking the Data Science Mini Bootcamp Series from AI Planet(formerly DPhi).
- Created learning assignments for the Python course.
- Helped the team to give feedback to learners.

September 2021 – October 2021

*Remote, Remote***Co-Mentor***Google Summer of code*

- Co-assisted the mentorship of 2023 GSOC contributors working on ivy (<https://github.com/ivy-llc/ivy>).

April 2023 – August 2023

*Remote, Remote***EDUCATION**

Pandit Deendayal Energy University*Bachelor of Technology in Computer Engineering*

Gujarat, India

*October 2021 – June 2025***Integrated Polytechnic Regional College Kigali***Dropout: Advanced Diploma in Biomedical Equipments Technology*

Kigali, Rwanda

October 2018 – January 2021