

# Felix Hirwa Nshuti

250-786-706-507 | [hirwanshutifx@gmail.com](mailto:hirwanshutifx@gmail.com) | [linkedin.com/in/fnhirwa](https://www.linkedin.com/in/fnhirwa) | [github.com/fnhirwa](https://github.com/fnhirwa)

## SUMMARY

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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 into 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

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**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

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### Scaling Deep learning backends with sktime

May 2024 – Aug 2024

*Machine Learning with time Series*

*Python, PyTorch, TensorFlow, Darts, CI/CD*

- [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

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### Open Source Contributor

May 2024 – Aug 2024

*Sktime*

*Remote, Remote*

- Contributed to sktime a unified ML library for Time Series(Under Gsoc)
- Scaled Deep Learning backends with sktime, mostly worked with Darts and PyTorch
- Presented findings at weekly mentorship meetings

### 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

July 2022 – September 2022

*Unify*

*London, United Kingdom*

- Contributed to Ivy development.

**Apprentice Software Developer***Rohde & Schwarz*

April 2021 – May 2021

*Kigali, Rwanda*

- 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.

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**VOLUNTEERING****Mentor***DeepLearning.AI*

August 2021 – April 2023

*California, United States*

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

**Mentor***AI Planet*

September 2021 – October 2021

*Remote, Remote*

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

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

April 2023 – August 2023

*Remote, Remote*

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

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**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*