Rova Isaia ANDRIAMAMY

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 rova-isaia-andriamamy | RovaIsaia | RovaIsaia

Antananarivo, Analamanga 101, Madagascar

OBJECTIVE

I am passionate about artificial intelligence, data science, and data analysis. I enjoy using machine learning and deep learning to solve real problems with data. My goal is to work on projects that have a positive impact and can be applied in the real world. I want to help build simple and useful solutions in fields such as astrophysics, healthcare, agriculture, and other areas where data can make a difference.

EDUCATION

- **University of Antananrivo** — *2024 - 2025*
  MASTER II — Antananarivo, Madagascar
  ◦ Astronomy and Astrophysics

- **INSI University of Ambanidia** — *2025 - 2026*
  MASTER I — Antananarivo, Madagascar
  ◦ Artificial Intelligence

- **University of Antananrivo** — *2022 - 2023*
  BACHELOR'S DEGREE — Antananrivo, Madagascar
  ◦ Physics

EXPERIENCE

- **Food Price Forecasting in Madagascar** — *2025 - 2026*
  Deep learning, TensorFlow, RNN, LSTM, GRU, Web Scraping — M1 Project
  ◦ Collected, cleaned, and organized market price data.
  ◦ Performed data preprocessing and time-series feature engineering.
  ◦ Designed, trained, and evaluated RNN-based models (LSTM, GRU) for short-term price forecasting.
  ◦ Built dashboard for real-time predictions using Flask and React.

- **DARA Basic Training** — *July 2025 - Mars 2026*
  Conputer Training,Practical Optical and Radio Astronomy, Data Reduction — South Africa, Kenya
  ◦ Familiarity with Bash terminal and Python libraries.
  ◦ Performed data reduction and analysis using Python programming.
  ◦ Learned observational techniques in optical and radio astronomy.
  ◦ Conducted hands-on telescope operations and data acquisition.

- **BRICS Astronomy** — *May 2025 - July 2025*
  Data Analysis — Remote
  ◦ Astrophysical data analysis, Python programming, and Machine learning applications in astronomy.
  ◦ Data cleaning, Python libraries
  ◦ Conducted an in-depth study of project.
  ◦ Developed machine learning models to predict dark matter halo masses.

- **Hack4dev** — *April 7th -10th, 2025*
  Deep learning : Developed a CNN model for image classification tasks — Antananarivo, Madagascar
  ◦ Analyzed diverse image types for classification tasks.
  ◦ Applied preprocessing techniques.
  ◦ Tested different model architectures.
  ◦ Optimized model parameters.
  ◦ Top 20 internationally in competitive evaluation.

SKILLS

- **Programming Languages :** Python, C, R, MATLAB, HTML, CSS
- **Machine Learning & Deep Learning :** scikit-learn (Linear Regression, Random Forest, Gradient Boosting);
  PyTorch, TensorFlow (CNN, LSTM, RNN, objects Detection)
- **Data Analysis & Visualization :** Pandas, NumPy, Matplotlib, Seaborn, Jupyter
- **Frameworks & Cloud Technologies :** Flask, React, AWS
- **Database & Tools :** SQL, Excel, Unix/Linux, Git
- **Scientific Domains :** Artificial Intelligence, Astronomy, Astrophysics, Cosmological Data Analysis

CERTIFICATIONS

- **English british pronunciation practice** *January 2026*
- **Mathematical Logic** *December 2025*
- **DARA Computer Training** *August 2025*
- **Brics Astronomy** *July 2025*
- **American English Speaking Practice** *May 2025*
- **Hack4dev** *April 2025*

MEMBERSHIPS

- **Malagasy Astronomical Society (MASS)**
- **Benty Fields Astronomy Research**
- **Sakay Young Students Association (AJES)**
- **University of Antananarivo Sports and Cultural Association (ASCUT)**

ADDITIONAL INFORMATION

Languages: Malagasy (Native), French (Intermediate), English (Intermediate)
Interests: Data science, Data Analysis, Radio Astronomy

REFERENCES

1. **Reference Person 1**
   Prof. Solohery RANDRIAMAMPANDRY
   Head of Astronomy and Astrophysics
   Department of Physics, Faculty of Sciences
   University of Antananarivo, Madagascar
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2. **Reference Person 2**
   Dr. Toky H. Randriamampandry
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