

# Abdoulaye Balde

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## WORK EXPERIENCE

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### Data Science Trainer

Jun 2023 - July 2023

*ORANGE DIGITAL CENTER GUINEE*

*Three-Week AI Training Program for Orange Guinea Employees: Topics Include Data Science, Machine Learning, and Natural Language Processing (NLP).*

### Teaching Assistant

November 20122 - Jan 2023

- Introduction to AI
- Introduction to Data Science and Machine Learning

## SKILLS

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Programming Languages: Python, C/C++, SQL, HTML/CSS etc.

Machine Learning: Scikit-Learn, Pytorch, TensorFlow, Pandas, Matplotlib, Seaborn, Plotly, etc.

Developer Tools: Git, Github, Bash, vim, Linux, Azure ML, Tableau, Ms Office.

## PROJECTS

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### Pneumonia Prediction

[Link to Demo](#)

Achieved over 98% accuracy in classifying chest X-Rays for pneumonia detection using the ResNet18 model from fastai.

### Faulty Air Quality Sensor Prediction

[Link to Demo](#)

Developed a fault classification model for devices using Python, Numpy, Pandas, Matplotlib, Scikit-Learn, and LightGBM. Achieved a top-ranking of 39 out of 493 participants with an accuracy score of 0.832%.

### Data Science and ML

[Link to Demo](#)

Conducted data analysis on Kaggle datasets using Pandas, scikit-learn, and NumPy. Developed a failure rate model with Supervised Learning, utilizing stochastic analysis and Bayesian statistics.

## EDUCATION

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2018 - 2022 Bachelor's Degree at **Sharda University**

(GPA: 7.59/10)

## PUBLICATIONS

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Balde, Abdoulaye et al. (2022). "An Efficient Approach for Predicting the state of Financial Inclusion by Addressing Class Imbalance using the Oversampling Technique". In: *2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA)*, pp. 1-5. DOI: [10.1109/ICCSEA54677.2022.9936452](https://doi.org/10.1109/ICCSEA54677.2022.9936452).

## Rewards & Achievements

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- **Organizer of the Deep Learning IndabaX Guinea 2023 conference** [Indabaxgn](#)
- **Kaggle Expert** [Kaggle](#)
- **Awarded as the Country Winner of Umojahack 2023**, securing the highest score among all Guinean participants in the competition [Zindi Africa](#)
- **Travel Awards** Received a Travel Award to attend the Deep Learning Indaba conference in Tunisia 2022.
- **Awarded as the Country Winner of Umojahack 2022** securing the highest score among all Guinean participants in the competition [Zindi Africa](#)
- **Secured the 2nd Place in the AI Hackathon: Data Science Week Hackathon in Guinea 2022** organized by GDG Ratoma. [Zindi Africa](#)

## CERTIFICATIONS

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- **Applied Machine Learning in Python (University of Michigan)** [Coursera](#)
- **Technical Support Fundamentals (Google)** [Coursera](#)
- **Introduction to Data Science in Python (University of Michigan)** [Coursera](#)

## LANGUAGES

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- **French** Native or bilingual
- **English** Native or bilingual