

# Dunand DJAKAI

ENSAE Paris Student – Aspiring Quant  
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## Education

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**ENSAE Paris, Engineering Degree** – Sep. 2024 – Present  
Functional & Convex Analysis, Probability, Statistics (SAS/R), Optimization, Economics.

**University of Douala, BSc in Mathematics** – Sep. 2021 – Jun. 2023  
Measure Theory, Functional Analysis, Numerical Analysis, Stochastic Processes, Inference.

## Work Experience

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**Machine Learning Research Intern – CREST** – Jun.–Aug. 2025  
Research on Multi-Armed Bandits: implemented and benchmarked UCB1 and UCB- $\phi$ -mixing in Python.

**Mathematics Tutor – Prépás Concours Centers, Douala** – Aug. 2022 – Sep. 2024  
Prepared students for national competitive exams and oral interviews in mathematics.

## Projects

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**Descriptive Statistical Analysis with SAS (ENSAE)** – 2024  
Analyzed ESS 2012 data: correlations between well-being and income using SAS macros.

**Optimization under Constraints in Python (ENSAE)** – 2025  
Implemented Ford–Fulkerson for flow problems and Hungarian algorithm for assignments.

**House Prices – Advanced Regression Techniques(Kaggle)** – 2025  
Built predictive models with feature engineering, Random Forests, and Gradient Boosting.

## Skills

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- **Programming:** Python, R, C++, SAS, LaTeX
- **Libraries:** NumPy, Pandas, SciPy, scikit-learn, matplotlib, seaborn
- **Data Analysis:** SAS, R (PCA), SQL, Excel

## Languages

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- French: Native
- English: Intermediate (B2) – improving toward fluency
- Spanish: beginner

## Certifications

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- Python for Data Science, AI and Development

## Interests

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- Reading: Philosophy, Science
- Sports: Football, Boxing