

Raed ROKH

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EDUCATION

Télécom Paris

Engineering Degree

Paris, France

September 2024 - July 2026

Double majoring in Applied Mathematics and Data Science

Coursework: Probability, Statistics, Machine Learning, Optimization Theory, Finance, Programming

SUP'COM

Engineering Degree

Tunis, Tunisia

September 2022 - July 2025

Coursework: Digital Signal Processing, Data Structures and Algorithms, Concurrent programming, Filter Design, Information Theory, Statistical inference GPA : 4.0

Esprit Prépa

Preparatory School MPSI-MP*

Tunis, Tunisia

September 2020 - July 2022

Two years top level curriculum, in order to prepare for the entrance examinations for the top Tunisian and French "Grande Ecoles". GPA: 4.0

EXPERIENCE

Tunisia Stock Exchange

Summer intern

Tunis, Tunisia

July 2023 - August 2023

- Gained insights into financial market operations, focusing on trading processes and market infrastructure.
- Contributed to analyzing market data to assess liquidity, volatility, and price movements.

PROJECTS

Task Accuracy Prediction using fNIRS and EEG Signals | MATLAB

September 2023 - June 2024

- Implemented advanced preprocessing pipelines for EEG and fNIRS signals from recent research papers, significantly enhancing data quality for precise task performance analysis.
- Developed and fine-tuned machine learning models to predict task accuracy, leveraging iterative optimization and validation methods to improve model precision and reliability.

Wildfire Spread Modeling and Stochastic Simulation | Python

September 2022 - September 2023

- Developed and implemented a Python-based simulation to model discrete-time wildfire spread, focusing on wind speed and directional impacts.
- Employed maximum likelihood estimation to derive transition probabilities and applied weighted least squares to fit a predictive model for propagation dynamics.
- Optimized the model to improve the accuracy of fire spread predictions and parameter estimations.

Banking Management System | C++

June 2022 - July 2022

- Designed and implemented a banking account management system using OOP, applying various data structures to optimize transaction processing and account management.

TECHNICAL SKILLS

Languages: Python, C++, SQL, MATLAB, R

Libraries/Frameworks: NumPy, pandas, SciPy, scikit-learn, TensorFlow, PyTorch, Keras, OpenCV

Mathematical/Statistical Methods: Linear Algebra, Probability Theory, Time Series Analysis, Statistical Inference, Monte Carlo Simulations, Optimization Methods

Signal Processing: Digital Signal Processing, Fourier Transforms, Filter Design, Wavelet Analysis, Time-Frequency Analysis

INTERESTS

Financial Markets, AI, solving puzzles, outdoor adventures (hiking, cycling).