Mohammed **Nechba**

Artificial Intelligence Engineer Student @ENSIAS

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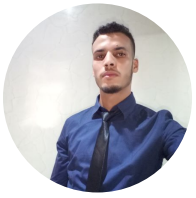

Education

2022-2024	Master's Degree in Engineering, Artificial Intelligence at **ENSIAS - Rabat** : *National School of Computer Science & System Analysis*
2018-2021	Bachelor of Mathematical and Applications, SMA at **UIT - Kenitra** : *Faculty of Sciences, Ibn Tofail University*
2017-2018	Baccalaureate : Physics Sciences

Work Experience

Aug - 2022 / Sep - 2022 — **Data Engineer Intern, Ministry of Economy and Finance, Morocco**

- The development of a machine learning model to assist state controllers, public institutions, and businesses in understanding computer terms contained in financial reports.
- Local deployment of the model in the company's server as a web application.

Python | Flask | SQL | Git | GitHub | ML | CSS | HTML5

Skills

Soft Skills	Skilled at communicating effectively, attentive to others' views, capable of explaining technical concepts to non-experts, possess leadership and motivational qualities.
Programming	**Python**, Java, C++, C, JavaScript, Php
Frameworks	Flask, FastAPI, Django
Data Bases	MongoDB, Microsoft SQL Server, MySQL
DevOps	Git, GitHub, Linux
Cloud	Oracle Cloud Infrastructure (**OCI**),Amazon Web Services (**AWS**), Google Cloud Platform (**GCP**), Huawei Cloud
Dev-Tools	Apache Netbeans, Visual Studio Code, Conda

Projects

ML from scratch with Python

NechbaMohammed/ML-from-scratch-with-Python

This project involves implementing various machine learning algorithms from scratch using the Python programming language. The algorithms that can be included are Pocket, Perceptron, Linear Regression, Adaline, Logistic Regression, Polynomial Regression, One-vs-All and One-vs-One Classifiers.

NumPy | Pandas | Matplotlib

MCFP

NechbaMohammed/Numerical_Analysis_Optimization_Package

The project consists of two main parts : one-dimensional function minimization algorithms and multi-dimensional function minimization algorithms. For one-dimensional function minimization, the project includes implementations of searching with elimination and interpolation methods. For system of equations and decompositions, the project focuses on solving systems of linear equations using Gaussian elimination, LU decomposition, and QR decomposition. For multi-dimensional function minimization, the project includes implementations of gradient descent, conjugate gradient, Newton's method, and quasi-Newton methods.

NumPy | Pandas | Matplotlib

House Prices - Advanced Regression Techniques

House Prices

This project focuses on predicting housing prices using advanced regression techniques. The project is based on a dataset containing numerous features of residential homes in Ames, Iowa. The goal of the project is to build a regression model that accurately predicts the sale price of a given home based on its features. Additionally, the project may involve other techniques such as cross-validation and ensemble learning to improve the accuracy and robustness of the model. The final deliverable will be a trained regression model that can predict the sale price of a residential home based on its features with high accuracy.

Python

Activities

Present – Oct 2022

R&D Manager Manager | ENSIAS Artificial Intelligence club, ENSIAS RABAT, Rabat, Morocco

- As part of The Artificial Intelligence club at ENSIAS, the R&D cell was brought to life in a new format that aims to explain and demystify machine learning algorithms and data science concepts to freshman students through projects and academic lectures, made by the members of the cell, teachers as well as professionals.

machine learning algorithms | data science concepts | Leadership | freshman students | academic lectures

Awards

Gold medal (1st Place) in the 1nd edition of programming contest "The 100 Days In Codeland"

link

Out of a pool of 100 teams and 300 participants, we managed to advance to the final round and become one of the top 31 finalists. The competition challenged us to solve six intricate problems that tested our coding abilities and teamwork. However, we persisted through the challenges and ultimately earned a spot among the three victorious teams through our determination and tireless efforts.

C++ | Data Structures | Optimization | graph theory

First Place in the data Competition (Kaggle)

link

ML | Scikit-Learn | XGBoost | Grid Search | EDA | Feature Engineering | Data Preprocessing

Languages

Arabic ●●●●●
English ●●●●○
French ●●●●○

Interests

- Football
- Blogging
- Open Source