

BENCHERGUI ABDELMALEK

Data Science & AI Engineering Student

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PROFILE

Currently studying Data Science & Engineering at the National Institute of Posts and Telecommunications (INPT), I am passionate about data analysis and innovative solutions based on Machine Learning. Curious and motivated, I am seeking an internship in Data Engineering, Data Science, or Artificial Intelligence to apply my skills and deepen my expertise.

PROJECTS

Project 1

Automated Discord Message Extractor

- Automated extraction of Discord messages using Selenium, dynamic parsing via XPath, and data structuring.
- Exploratory analysis and NLP processing: visualizations, trend detection, sentiment analysis, and topic modeling.

Project 2

Automation of CV Processing and Intelligent Matching

- Developed a FastAPI-based API for uploading, storing, and securely managing CV files.
- Implemented a custom vector indexing system and a semantic search engine using OpenAI and FAISS.
- Integrated n8n to automate processing, indexing, and querying workflows.
- Created a query endpoint to search the CV database and return relevant results with explicit scoring.

Project 3

Malware Detection Using Machine and Deep Learning

- Network data preprocessing, feature selection using RFE/PCA, and advanced visualizations to identify malicious behavior.
- Training and evaluation of models (Random Forest, XGBoost, Neural Networks) with performance metrics and multi-model comparison.

Project 4

Employee Attrition Analysis and Model Comparison

- Exploratory data analysis: visualization of relationships between attrition and variables like age, department, job satisfaction, and income.
- Application and comparison of classification models: training various algorithms (Random Forest, KNN, SVM, etc.) to predict attrition, evaluated using confusion matrices and accuracy scores.

MY PHILOSOPHY

"Data can explain the world – but it's up to us to understand it and make a difference."

MOST PROUD OF



Joining INPT and Following My Passion

Proud to have joined INPT and to pursue my studies in the field I'm passionate about: Data Science & Engineering.



JADARA Foundation Scholarship Recipient

Selected on merit; received high-level coaching, soft skills workshops, and financial support to pursue advanced studies in AI & Data Science.

SKILLS

Python

SQL

Java & C

Docker & git

NLP

RAG

Data Collection

Data Cleaning

Data Visualization

Machine Learning

Statistics

LANGUAGES

Arabic

French

English

EDUCATION

Engineering Degree in Data Science & Engineering

National Institute of Posts and Telecommunications (INPT)

Sept 2024 – June 2027

Preparatory Classes MP

CPGE Omar Ibn Al-Khattab

Sept 2022 – June 2024