Brahim **SAADI**

MVA STUDENT

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Brahim SAADI

Skills

- Python, C/C++, SQL.
- Machine Learning Algorithms, Data Analysis.
- DL, NLP, LLMs.
- Scikit-Learn, PyTorch, TensorFlow-Keras, Pandas, Seaborn, nltk, OpenCV.
- Git/GitHub.
- Power BI, Jupyter, VS Code.

Languages

- **Arabe**
- **English**
- **French**

Certifications

- Deep Learning with TensorFlow 2
  365 data science
- Machine Learning in Python
  365 data science
- Fundamentals of Deep Learning
  NVIDIA
- Tools for Data Science
  IBM | Coursera
- Introduction to Data and Data Science
  365 data science
- Git and GitHub
  365 data science

Education

2024 - Pres. **M2 MVA(Mathematique Vision Apprentissage)** **ENS paris saclay**

- **Key Courses:**: Convex Optimization, Object Recognition and Computer Vision, Deep Learning & Signal Processing, Time Series Analysis, Altegrad(NLP & graphs), Reinforcement Learning.

2021 - 2024 **Data Science & Intelligence Artificielle** **École nationale polytechnique**

- Developed expertise in machine learning, data analysis, databases, computer vision, natural language processing, industrial engineering, communication, entrepreneurship, and project management.

2019 - 2021 **Classes Préparatoires** **École nationale polytechnique**

- Successfully passed (Concours d'Accès au Grandes Ecoles): ranking **top 7%**.

2019 **Baccalaureate** **Lycée Khatab Ibrahim | Skikda, Algérie**

- Mathematics and Electrical Engineering **(17,68/20)**

Experience

Feb. 2024 – Aug 2024 **Research intern** **(INRIA)Laboratoire d'informatique de l'X (LIX)**
Building AI Pipelines for Fact-Check Analysis

- Collected and organized datasets of claims and fact-checking articles.
- Developed and implemented a retrieval solution using BM25, followed by re-ranking with the SBERT model (LLM), including fine-tuning LLMs on collected data for improved accuracy.
- Deployed an interactive platform, **FactCheckBureau**, enabling researchers to design and evaluate fact-checking analysis pipelines in production.

Oct. 2023 – Jan. 2024 **Research intern : 5G Network Self-Configuration** **ERICSSON**

- Developed a solution for the self-configuration of 5G NSA sites using Deep Q-Learning.
- Deployed the solution with the PCI configuration tool, significantly reducing manual configuration time.

Feb. 2023 – Jun. 2023 **Data Science Intern: IoT Device Classification** **ERICSSON**

- Captured IoT device network traffic using Wireshark and performed data analysis to create a dataset.
- Prepared the dataset through cleaning, normalization, and encoding for machine learning model training.
- Trained and evaluated machine learning models (Random Forest, SVM, KNN) to classify IoT devices.

Publications

Oct. 2024 **FactCheckBureau: Build Your Own Fact-Check Analysis Pipeline** **CIKM '24: 33rd ACM International Conference on Information and Knowledge Management**

- **Contribution** : Contribution: Collected claim data and implemented a retrieval approach based on BM25, followed by re-ranking using SBERT (LLM).
- Developed and deployed the **FactCheckBureau** platform for pipeline matching and analysis in fact-checking.