# Achraf Chahboune

Casablanca, Morocco

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## SUMMARY

Master's student in Big Data and IoT at ENSAM Casablanca, currently seeking a final-year project. Equipped with strong academic knowledge, a team spirit, and driven by the desire to apply innovative data and AI solutions to solve real-world challenges.

## EXPERIENCE

### Final-Year-Project
*3D Smart Factory*     *Jul 2024 - Sep 2024,*

**3D Semantic Segmentation of Brain Tumors**
- Developed a 3D multiclass segmentation model for brain tumor diagnosis using neural networks.
- Applied advanced medical imaging techniques (MRI) to segment tumor sub-regions.
- Trained and evaluated the model on multimodal MRI data using metrics such as Dice coefficient.
- Visualized and validated results with 3D rendering tools, enhancing diagnosis and patient monitoring.

### Final-study-Project
*Société Bottu*     *Apr 2023 - Jul 2023,*

**Development of a Stock Management System**
- Designed and implemented a stock management system for a medical company using React.js and PHP.
- Improved stock tracking accuracy through scanning and categorization features.
- Created intuitive user interfaces, reducing staff training time.

## SELECTED PROJECTS

**Development of a Mobile Translation Application**
- Developed a mobile app for real-time text translation using machine learning technologies.
- Integrated ML Kit into the Android application for translation tasks.
- Implemented text recognition and language detection features to optimize user experience.

**Automation Scripting for Applications and Websites**
- Created automation scripts for testing applications and websites, streamlining quality assurance processes.
- Developed scraping scripts to collect data, improving research efficiency across projects.

**PharmaFind Pharmacy Locator Application**
- Developed a web application to locate pharmacies and check medication availability in Morocco.
- Implemented a real-time database using technologies like React and Spring Boot.

**Arabic Text Multi-Classification Model and Deployment**
- Developed a text classification model for Arabic texts using fine-tuned BERT and XLM-Roberta models.
- Deployed the model with Streamlit for an interactive real-time classification interface.

## EDUCATION

**National School of Arts and Crafts of Casablanca (ENSAMC)**     September 2023 - Ongoing
*Master in Big Data and IoT*

**Faculty of Science and Technology of Mohammedia**     September 2020 - July 2023
*Bachelor in Computer Science, Networks, and Multimedia*

## SKILLS

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|---|---|
| **Programming** | Python, Java, JavaScript, PHP, SQL, C |
| **Data Analysis** | SQL, Excel, pandas, NumPy, Visualization (Tableau, Power BI) |
| **Machine Learning** | Scikit-learn, TensorFlow, Keras, PyTorch |
| **Mobile Development** | Android Studio, React Native |
| **Web Development** | React, Next.js, SpringBoot, Django |
| **Database Management** | MySQL, PostgreSQL, MongoDB |
| **Version Control** | Git |
| **Automation** | Selenium, Appium |
| **Other Tools** | Flask, Docker, AWS |
| **Soft Skills** | Collaboration, Innovation, Leadership, Problem Solving, Time Management |

## LANGUAGES

- Arabic (Native)
- English (Advanced)
- French (Advanced)

## CERTIFICATIONS

**Coursera - IBM**     December 24, 2023
*Machine Learning with Python*

**Coursera - DeepLearningAI - Stanford**     January 6, 2024
*Supervised Learning: Regression and Classification*