# Mohamed HANNANI

## Data Scientist

Experienced data scientist specialized in analyzing large datasets and developing intelligent systems. Proficient in R, SQL, and Python for effective data manipulation and analysis. Collaborative team player with data analysts and engineers. Skilled in visualizing insights and ensuring data quality using statistical techniques and machine learning algorithms.

## EXPERIENCE

### Junior Data Scientist
Nov 2022 - present

Indatacore, Casablanca, Morocco

- Implemented and developed OCR solutions for extracting alphabetic and numeric amounts from handwritten French bank checks, enabling verification of their validity.
- Extracted relevant information from printed or scanned bills. Developed algorithms and implemented a system to automate extraction of details like purchased items, unit prices, due dates, and more. Streamlined bill analysis, enhancing efficiency and reducing manual effort in data entry and processing.
- Worked on a project focused on extracting relevant information from printed or scanned bills. Developed algorithms and implemented a system to accurately extract details such as purchased items, unit prices, due dates, and other pertinent information. This project aimed to automate the data extraction process and streamline bill analysis, enhancing efficiency and reducing manual effort in data entry and processing.
- Actively contributed to the development and improvement of data science practices, workflows, and best practices within the organization.

`Transformers` `Vision-Transformers` `PyTorch` `Javascript` `Fastapi`

### Intern Data Scientist
Mars 2022 - Nov 2022

Indatacore, Casablanca, Morocco

- Developed and implemented an anti-spoofing model achieving an impressive accuracy of 97%. Integrated the model into a JavaScript application using TensorFlow.js, leveraging the power of deep learning for robust liveness detection.
- Collaborated with software engineers to deploy machine learning models into production, contributing to the development of scalable data-driven solutions (SKyID product).
- Designed and implemented data cleaning and preprocessing pipelines for internal signature collected data, ensuring data integrity and accuracy for analysis.
- Developed and deployed a highly effective model for offline signature analysis, enabling the extraction of signature embeddings from image data. Implemented an automated system to train personalized SVM models for each user, ensuring accurate differentiation between their unique signature and others.

`Tensorflow.js` `Reactjs` `Javascript` `OCR` `PyTorch` `Streamlit` `Transformers`

## EDUCATION

### Master of data science
University of Cadi Ayad, Faculty of science
2020 – 2022
Marrakech

### Bachelor of Computer Science
University of Cadi Ayad, Faculty of science
2019 – 2020
Marrakech

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## Skills

**Programming:** Python, R, Javascript, SQL, Bash.
**Frameworks:** Django, Flask, Dash, Plotly, Shiny, FastAPI, Streamlit
**Libraries:** Pandas, Scikit-learn, NumPy, Matplotlib, SciPy
**Data Analytics Tools:** Power BI, Pentaho, Talend.
**Developer Tools:** Git, Docker, AWS and GCP
**Math:** Statistics, Probability, Linear algebra.
**Misc:** Linux, LaTeX, Bash.
**Databases:** PostgreSQL, MongoDB, MySQL
**Project Management Tools:** JIRA.

## Languages

- Arabic — Native
- French — B2
- English — B2

## Interests

- Traveling
- Reading
- Guitar
- Design
- Languages