KHELLOUFI Naoual

Artificial Intelligence Engineer

Sale / Morocco

07 10 49 10 41 | khelloufinaoualpro@gmail.com | www.linkedin.com/in/naoual-khelloufi

Education

Master's in Artificial Intelligence and Virtual Reality   2023 – 2025
Faculty of Science of Kenitra, Kenitra

Bachelor's Degree in Computer Engineering   2019 – 2023
Multidisciplinary Faculty of Taza, Taza

Experience

Final Year Project - NLP RAG System, 3D Smart Factory, Mohammedia   (February - July) 2025

– Developed an interactive web interface that allows users to ask questions and receive answers based on their uploaded documents using a RAG system.
– Designed the interface with Streamlit, supporting file upload and visualization (PDF, TXT, DOCX, CSV).
– Integrated nomic-embed-text for semantic vectorization and LLaMA 3.2 for answer generation, orchestrated via LangChain.
– Implemented an intelligent chat system connected to a ChromaDB vector database to provide accurate and contextual responses.

Freelance – Sales & CRM Assistant, Germania Autos – Egyptian car export company   (July - August) 2024

– Export cars from China, Germany, and the UAE to Egypt.
– Managed 100 clients through WhatsApp and Facebook, providing customized recommendations based on their budgets.
– Handled commercial content publishing on Facebook and maintained client records using Odoo CRM.
– Initiated contact with car exhibitions and trade shows to explore business partnership opportunities.

Internship in the IT department of the HR Service, Municipality of Taza, Taza   (August – September) 2022

– Observation internship.
– Assisted in managing employee data and coordination of civil servant activity.

Projects

Platform for handwritten non-Latin character recognition: Tifinagh   2025

– Development of a platform enabling the conversion of handwritten Tifinagh texts into digital format.
– Conducted literature review (state of the art) and facilitated Agile project initiation (scrum master).
– Pre-processed the image dataset : conversion to grayscale, resizing, and data augmentation.

Image Caption Generation Model   2024

– Designed an encoder-decoder model that combined CNN (VGG16) for visual feature extraction and LSTM for text generation.
– Pre-processed data to extract visual features and vectorize textual descriptions.

Handwritten Digit Recognition   2024

– Deep learning-driven image classification relies on supervised CNNs.
– Used the LetNet architecture and the MNIST dataset.

Financial Fraud Detection: Credit Card Transactions   2023

– Developed a supervised classification system.
– Performed data preprocessing: encoding categorical variables, handling missing values, and class balancing through oversampling.
– Compared the performance of Random Forest, Logistic Regression, and Decision Trees.

360 degree videos on the Web: Experiment with 360-degree technology   2022

– Creation and publication of 360 degree videos on the web using the following concepts : stithing, metadata injection, 360 degree and panoramic images.

– Technologies: Hugin, Blender, Spatial Metadata Injection.

Technologies

Data Science and ai : machine learning,deep learning, data pre-processing, image processing, NLP.

Libraries : NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Keras, Langchain.

Programming and web development : Python, C, C++, Java, HTML5, CSS3, SQL, UML.

Tools and environments : Jupyter Notebook, Google Colab, Kaggle, Visual Studio code, Jira (Agile: Scrum), Odoo (CRM), Git, Microsoft Project.

Extra-curricular activity

logistic team member, Pragnomos Club, Faculty of science of Kenitra, Kenitra   Since 2024
- Pragnomos is a club dedicated to simplifying AI concepts and building a community passionate about artificial intelligence.
- Participated in the organization of a welcome event for new students.

Soft skills

- Fast learning, flexibility, autonomy, and time management.
- Adaptability, team spirit, communication, and active listening.
- Analytical and problem-solving skills, attention to details.

Languages

French: Fluent   English: Intermediate   Arabic: Native

Interests

- Artificial intelligence applied to sales and marketing
- Virtual reality