

# SENHADJI NIHAD

[nihadsehadji18@gmail.com](mailto:nihadsehadji18@gmail.com), +213778055480,

Algiers, Algeria | <https://www.linkedin.com/in/nihad-senhadji-7bbb68234/>

Highly motivated to obtain a position with opportunities to demonstrate a strongwork ethic, collaboration skills, problem-solving ability, and the ability to work within a team as well as independently.

## EDUCATION

### MASTER Of Applied Statistics and Probability

June 2022

University of Science and Technology Houari Boumediene.

### Bachelor Of Probability and Statistics

June 2020

University of Science and Technology Houari Boumediene.

## PROFESSIONAL EXPERIENCE

### DATA ANALYST, DATA OFFICE, BNP PARIBAS EL DJAZAÏR

Dec 2023 - Present

- Developed a Generative AI bot using Azure OpenAI to automate the creation and modification of bank procedures during system transitions, leveraging LLMs for accurate document generation and reduced manual effort and improved process efficiency and decreasing the team from five monthly staff to just one.
- Designed and deployed an Azure OpenAI-powered chatbot using cutting-edge LLM technology to automate procedural query responses, eliminating human interaction and providing precise answers with references to specific sections of documentation. Improved operational efficiency by streamlining internal processes and reducing manual search efforts by 50%.
- Led data quality assessments by executing data extraction, cleansing processes, and establishing data control workflows to uphold data integrity.
- Implemented Key Performance Indicators (KPIs) to evaluate and enhance data quality, delivering monthly detailed files containing all data anomalies to each department to facilitate their data remediation programs, ensuring that all bank data is reliable and accurate.
- Implemented an NLP-based system for the operational department to identify the similar names between our clients' database and the poorly structured 'List of individuals barred from issuing cheques,' thereby reducing manual processing time from one week to 15 minutes and significantly improving efficiency.

### ENTITY ADMINISTRATIVE FUNCTIONS MANAGER , BNP PARIBAS EL DJAZAÏR

Dec 2022 - Dec 2023

- Built a fraud detection system utilizing graph theory and Louvain algorithm, uncovering 24 million euros of illicit capital movement, and quarterly delivery of reports encompassing all detected communities to enhance financial security.
- Developed a Customer Churn Prediction application utilizing supervised machine learning algorithms such as Random Forest, Decision Trees, Logistic Regression, and Support Vector Machines (SVM) deployed via Streamlit.
- Implemented sensitivity level detection for client activities using semantic similarity clustering algorithms, by leveraging BERT word embeddings model. Categorized activities into low, medium, high, and very high sensitivity levels, facilitating informed decision-making and enhancing risk assessment.

### DATA SCIENTIST INTERN, YASSIR EXPRESS

November 2021-July 2022

Created Restaurant Recommendation Systems with Python for *YASSIR EXPRESS*.

- Neighborhood Based Recommendation System KNN (user-based and item-based) using different similarity metrics.
- Popularity-Based Recommendation Systems
- Location-Based Recommendation Systems using Kmeans clustering and the Haversine distance.

### DATA SCIENTIST INTERN, AYRADE COMPUTER SERVICES COMPANY

July 2021-February2022

- Developed an Annual Dashboard and Reports using Power BI.
- Constructed a Regression Model for Predicting Annual Sales Revenue.
- Established a Non-relational Database using MongoDB.

### DATA SCIENTIST INTERN, SIRIUS NET SOFTWARE DEVELOPMENT COMPANY

June 2021-February 2022

- Designed and implemented a responsive website utilizing Bootstrap, HTML, and CSS.
- Database management tasks using PhpMyAdmin

### DATA ANALYST INTERN, ELIT EL DJAZAÏR INFORMATIONS GROUPE SONALGAZ

April 2019- October 2019

- Established databases and conducted data interpretation to drive meaningful insights using SQL.

## SKILLS

**Programming languages** (Python,Java,C/C++,SQL,MATLAB, R, PHP,JavaScript,HTML,CSS,Bootstrap)

**DBMS** (MySQL,FILEZILLA,PostgreSQL,XAMPP and MangoDB,Postman)

**Big Data frameworks** (Spark)

**Data visualization** (Altirex,Tableau , Matplotlib, Seaborn, and Plotly)

**Data calculation and manipulation** (Numpy, SciPy and Pandas)

**Machine Learning libraries** (Scikit-learn, Statsmodels, MAPIE)

**Deep Learning Framework** (TensorFlow and Keras, NLTK) **Technical Skills**

**Frameworks:** Node.js, Flask, Django, Streamlit.

**Developer Tools:** Git, Gitlab, Jenkins, Docker.

**Other:** Power BI, Microsoft Office, HUBSPOT, CRM

---

## ***ACADEMIC PROJECTS***

- **Heart Failure Disease Prediction Project** using unsupervised Machine learning technique Kmeans Clustering.
- **House price prediction Project** using unsupervised Machine learning technique Linear Regression.

---

## ***CERTIFICATIONS***

- Coursera IBM machine learning professional certificate.
- Microsoft Azure Develop Generative AI solutions with Azure OpenAI Service certificate.
- Microsoft Azure Build a question-answering solution certificate.
- Microsoft Azure Prepare for AI engineering certificate.
- DeepLearning.AI Neural Networks and Deep Learning certificate.
- DeepLearning.AI Natural Language Processing with Sequence Models certificate.
- DeepLearning.AI Natural Language Processing with Probabilistic Models certificate.
- DeepLearning.AI Natural Language Processing with Attention Models certificate.
- Coursera Generative AI with Large Language Models certificate.
- Coursera Natural Language Processing Specialization certificate.
- Coursera Natural Language Processing with Classification and Vector Spaces certificate.
- Coursera IBM Deep Learning and Reinforcement Learning certificate.
- Coursera IBM Supervised Machine Learning: Classification certificate.
- Coursera IBM Supervised Machine Learning: Regression certificate.
- Coursera IBM Unsupervised Machine Learning specialization certificate.
- Coursera IBM Exploratory Data Analysis for Machine Learning certificate.
- Coursera IBM Machine Learning Capstone certificate.
- Machine Learning by Stanford University Cours Coursera.
- Google Fundamentals of Digital Marketing Google certificate.
- MongoDB certificate from Mongo DB University.
- Time series certificate.
- Certified Administrator Domino Data Lab.
- Certified Data Science Practitioner Domino Data Lab
- Sololearn Certified Python Core, HTML, CSS.

---

## ***CORE STRENGTH***

- Team Leader.
- Strong Communication skills.

---

## ***LANGUAGES***

- Arabic, French, English, and Turkish.