**MOHAMED LEMINE MBARECK**

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# **Profile**

Self-motivated developer with strong passion for generative AI and software engineering. Proven ability to master new technologies independently, as demonstrated by recent completion of Udacity's Foundation of Generative AI Nanodegree and development of several full-stack applications. Seeking a Software Engineering role where continuous learning mindset and practical problem-solving skills can contribute to innovative GenAI initiatives.

# **Technical Skills**

* **Languages & Frameworks**: JavaScript, Python, R, React, Next.js, Node.js, HTML/CSS.
* **AI/ML Technologies:** Foundation Models, Prompt Engineering, RAG, Hugging Face, OpenAI API.
* **Data Technologies:** MongoDB, SQL, Data Visualization, Data Analysis
* **Developer Tools:** Git, GitHub, REST APIs, Vercel.

# **Experience**

## **IMMIGRATION LEGAL SERVICES MANAGER | CANOPY NWA | Jan 2021 – PRESENT**

* Managed a high-volume portfolio of over 500 cases annually, implementing organizational processes to ensure efficient service delivery and data management for each case.
* Developed and implemented efficient case tracking and management processes, significantly improving operational effectiveness and data integrity, directly relevant to data quality management and process optimization.
* Led rapid response projects, coordinating complex logistics and resources under pressure to assist large groups, demonstrating strong project management and problem-solving skills applicable to supply chain coordination and issue resolution.
* Established and maintained collaborative partnerships with various external organizations, fostering communication and streamlining workflows to enhance service delivery, mirroring the need to collaborate with suppliers and cross-functional partners.
* Provided crisis support and quick solutions for urgent client needs, showcasing adaptability and the ability to troubleshoot and resolve issues efficiently.
* Supervised and mentored staff and interns, delegating tasks and ensuring performance to meet program goals, reflecting leadership and team coordination abilities.

## **Attaché de Presse | Presidential CABINET (mauritania) | JAN 2011 – jan 2018**

* Collaborated with senior leadership on planning and executing official communication strategies, contributing to public image and information dissemination efforts.
* Managed media relations and public information flow, ensuring accurate and timely communication to diverse stakeholders, relevant to external communication and data transparency.
* Monitored media coverage and public sentiment, providing insights for strategic communication adjustments, similar to monitoring customer feedback and industry trends.

# **Projects**

**TrendSpark - AI Content Integration (2025)**

* Developed application that integrates AI for trending news analysis and content generation.
* Implemented text preprocessing and integrated multiple AI APIs.
* Applied skills from Generative AI Nanodegree to solve real content generation challenges.
* Used vibe-coding skills to build the app with AI code assistant and integrated MCP server tools.
* Live Demo: <https://trendspark.vercel.app/>

**Immigration Case Management System (2023)**

* Built full-stack MVP using Next.js, Material UI, and MongoDB.
* Persisted data using MongoDB.
* Leveraged Material UI library components for better UX/UI.
* Created authentication system and CRUD functionality for managing client data.
* Designed responsive UI for seamless user experience across devices.
* Live Demo: [here](https://clientdatabase-hazel.vercel.app/?callbackUrl=https%3A%2F%2Fclientdatabase-hazel.vercel.app%2Fdashboard) .

**Twitter Sentiment Analysis Tool (2019)**

* Self-taught R programming to analyze political discourse on Twitter.
* Applied automated text mining techniques to extract insights from unstructured data.
* Implemented data visualization components to present complex findings
* GitHub: [Link](https://github.com/Mbareck21/Sentiment-Analysis-of-Political-Tweets-with-R)

# **Education & Self-directed Learning**

**Foundation of Generative AI Nanodegree** - Udacity (2025)

* Mastered practical applications of LLMs, RAG, prompt engineering and ethical AI.
* Developed hands-on experience with PyTorch, Hugging Face, and LangChain.
* Learned transfer learning, parameter-efficient fine-tuning, and foundation model adaptation.

**Google Data Analytics Professional Certificate** - Coursera (2023)

* Self-taught SQL, R, and data visualization techniques while working full-time
* Completed case study demonstrating ability to derive actionable insights from complex datasets.

**Front-End Web Development Certificate** - University of Arkansas (2023)

* Built dynamic web applications using JavaScript, React, and modern web technologies.
* Supplemented self-taught skills with formal instruction in UI/UX design principles.

# **Activities and Interests**

Theater, philosophical conservation, Chess, biking, Video Games, AI