Abdelillah Serghine

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Education

Higher School of Computer Science (ESI-SBA) - Sidi Bel Abbès, Masters and State Engineer diploma in Artificial Intelligence and Data Science
Sept 2023 – Present
- **Coursework:** Computer Architecture, Project Management, Advanced Databases, Machine Learning, Deep Learning, NLP, Big Data, Advanced Netwroks

University of Adrar - Adrar, Bachlor's Degree in Computer Science
Sept 2021 – June 2023
- **Coursework:** DSA, Networks, Operating systems, OOP (Java), web developement

Experience

Software Engineer Intern, Sonatrach, Adrar
Sept 2024 – Sept 2024
- Developed a mini python application for data visualization of oil production optimizing decision making
- Discovered the IT Departement and its roles also the company architecture
- Discovered the the management systems used to reduce the company costs
- Added a new office to the network

Technical Team Member, Alphabit Club, Sidi Bel Abbès
Sept 2023 – Present
- Developed user friendly section of a web page using Nextjs and Tailwind-css for Alpha Ai event

Projects

Healthcare Assistant
Github
- Applied association rule mining (ECLAT, Apriori, FP-Growth) to analyze 239k+ prescription records, uncovering patterns and building scalable models for pharmacy and healthcare integration.
- Tools Used: Python, Streamlit, conda, Pandas, Scikit-learn

Paperly
Github
- Developing an LLM tool that helps academics extract and summarize informations from research papers.
- Tools Used: Python, RAG, AgentiRAG, GraphRAG, ChromaDB, Gadio

Heart Disease Detection
Github
- Performed data cleaning, feature encoding, correlation analysis, and z-score normalization on a heart disease dataset to prepare it for machine learning tasks.
- Tools Used: Python, Pandas, Matplotlib, Scikit-learn, Gadio

Skills

Languages: Python, R, C, Java, SQL, HTML, CSS, JavaScript, Latex

Technologies: Streamlit, Linux, Gradio, Git, Github, Figma, Docker, PyTorch, Tensorflow, Pandas, Scikit-learn, Matplotlib OpenMP, Conda, Spark, Hadoop

Volunteer

Graphic Designer, Designed UI/UX pages for CTF writeups platform and social media posts for Hackini event
Shellmates Club

Organizer, Organized an event called Alpha Ai ensuring seamless event running and guidance of participants
Alhpabit Club

Awards and Certificates

Classed in the top 10% students class 2023	Sept 2023
Supervised Learning with scikit-learn, DataCamp	May 2025
Working with the OpenAI API, DataCamp	Aug 2025
Introduction to Data and Data Science, 365 Data Science	Nov 2024
The Machine Learning Process A-Z, 365 Data Science	Nov 2024
Introduction to Data and Data Science, 365 Data Science	Nov 2024
Intro to AI, 365 Data Science	March 2024
Introduction to Generative AI , Google	July 2024