CHARBEL KHABBAZ

✉ ckhabbaz7@gmail.com   📞 +961 71716337   🔗 https://charbelkhabbaz.github.io/MyPortfolio/

🐙 github.com/charbelkhabbaz/   🔗 linkedin.com/in/Charbel-Khabbaz

Profile

Senior Computer Engineering student with a minor in Mathematics and a strong passion for data analytics and chatbot development. I enjoy applying problem-solving skills and programming expertise to design innovative solutions to real-world problems, aiming to enhance everyday human life.

Education

Minor in Mathematics, Lebanese American University   2024 – present

BE - Computer Engineering, Lebanese American University   2022 – present
CGPA: 3.88/4 , Honor's Program, Dean's Distinction List
Clubs: IEEE Artificial Intelligence, Google Developer Student

Lebanese Baccalaureate - General Science, Institut Père Michel Khalifé   2008 – 2022
Grade: 18.10/20 average , Rank: 1

Skills

Programming & Scripting Languages
- **Python** (Pandas, PySpark, NumPy, Matplotlib, Pillow, OpenCV), **Java, PHP, JavaScript**

AI, NLP & Chatbot Frameworks
- LangChain, OpenRouter, Hugging Face, OpenAI, Ollama

Tools, Databases & Visualization
- MySQL, Power BI, Tableau, Git / GitHub

Web Development & Styling
- HTML, CSS, SCSS

Languages

- English
- French
- Arabic

Projects

Churn Prediction Dashboard (Power BI + ML, Dynamic SQL Data)
- Cleaned and analyzed a customer dataset (~15,000 rows) using Power BI, sourcing data dynamically from a SQL database.
- Developed interactive dashboards to visualize churn trends, customer segments, and key performance indicators (KPIs).
- Applied external machine learning models to accurately predict customer churn.
- Integrated predictive results into the dashboard to generate actionable business insights and support data-driven decision-making.

Dashboard with Chatbot & Machine Learning Integration
- Developed an interactive analytics dashboard using **Streamlit**, connected to a **MySQL insurance database**.
- Integrated a **natural language chatbot** to answer real-time queries using SQL generation.
- Implemented multiple **machine learning models**:
- Built advanced visualizations with **Plotly** and implemented dynamic filtering and user inputs.
- Tech stack: **Python**, **Pandas**, **scikit-learn**, **Plotly**, **LangChain**, **MySQL**.