

Karin Iskandarani

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SUMMARY

Applied **Data Scientist** and **AI Engineer** with hands-on experience in **predictive modeling**, **machine learning workflows**, and analytics-driven decision support. Proficient in **Python**, **Scikit-learn**, and **data preprocessing**, with experience in **feature engineering**, **cross-validation**, **model evaluation**, and **hyperparameter optimization**. Worked on structured data pipelines, analytical automation, and **time-series forecasting** projects using **AR**, **MA**, and **SARIMAX** models. Skilled at translating analytical findings into actionable insights for technical and non-technical stakeholders. Passionate about building scalable **AI/ML solutions** for **forecasting**, **trend analysis**, and intelligent decision-making.

TECHNICAL SKILLS

- **Programming & Analysis:**
Python (Pandas, NumPy, Scikit-learn, PyTorch), SQL
- **Machine Learning:**
Regression, Logistic Regression, Random Forest, SVM, KNN, XGBoost, Time-Series Forecasting (AR, MA, SARIMAX)
- **Model Evaluation & Validation:**
Cross-Validation, Hyperparameter Tuning, Accuracy, Precision, Recall, F1-Score, AUC, RMSE
- **Data Processing & Feature Engineering:**
EDA (Exploratory Data Analysis), Data Cleaning, Data Validation, Feature Engineering
- **Tools & Collaboration:**
Git/GitHub, Microsoft SQL Server, Supabase, Power BI, Tableau

WORK EXPERIENCE

AI Engineer Intern – Phoenician Capital | Beirut, Lebanon | *October 2025 – November 2025*

- Developed automated **data extraction** and **data preprocessing pipelines** for complex financial datasets from non-uniform sources.
- Cleaned, validated, and standardized large datasets to improve downstream analytical and modeling reliability.
- Automated reporting and data processing workflows to support scalable analytical operations.
- Implemented structured validation checks to ensure **data consistency** and integrity across datasets used for analysis and reporting.

AI Engineer Intern – Cog Developers | Beirut, Lebanon | *Jun 2025 – September 2025*

- Conducted **hyperparameter tuning** and **model optimization** to improve predictive model performance.
- Evaluated model outputs using structured **performance metrics** to ensure reliability and consistency.
- Applied **embeddings** and similarity techniques to improve data retrieval and contextual accuracy.

- Contributed to analytical workflows translating structured inputs into dynamic query outputs.
- Assisted in experimentation and optimization workflows for **AI-driven systems** and predictive tasks.

Data Scientist Trainee – ZAKA | Beirut, Lebanon (Remote) | Oct 2024 – April 2025

- Conducted **exploratory data analysis (EDA)** and **feature engineering** on structured datasets.
- Built and evaluated supervised **machine learning models** using **Scikit-learn**.
- Applied **cross-validation techniques** and performance metrics to assess model reliability.
- Worked on **regression** and **predictive analytics** tasks using structured datasets.
- Presented analytical findings and model results to technical and non-technical audiences.
- Documented methodologies and validation workflows to ensure transparency and reproducibility.

Data Analyst Intern – Chedid Capital Holding | Beirut, Lebanon | December 2023 – June 2024

- Built and refined **Power BI dashboards** to support operational and strategic decision-making.
- Wrote and optimized **SQL queries** to extract, consolidate, and validate data from multiple sources.
- Reviewed and resolved data inconsistencies to ensure reporting accuracy.
- Migrated and configured **150+ reports** from **SSRS to Power BI**, improving reliability and usability.
- Automated recurring reporting processes to enhance efficiency and reduce manual effort.

PROJECTS

Time Series Forecasting for Bike Ride Analysis

- *Developed AR, MA, and SARIMAX forecasting models for time-series analysis and demand trend prediction, improving RMSE to 7.067. ([Project Link](#))*

Real Estate Rental Yield Prediction (Python, Scikit-learn)

- *Built and evaluated Random Forest regression models to predict rental yield and investment scores.*
- *Engineered features, implemented preprocessing pipelines, and evaluated model performance using MAE, RMSE, R^2 , and MAPE. ([Project Link](#))*

Global Suicide Rates Dashboard

- *Developed an interactive Tableau dashboard visualizing global suicide trends and analytical indicators to support data-driven insights. ([Tableau Dashboard Link](#))*

EDUCATION

Bachelor Degree in Computer Science

September 2019- July 2023

Lebanese International University

GPA: 3.5 with honors.

CERTIFICATIONS

- ZAKA Data Science Certification
- AWS Cloud Practitioner Certification
- Artificial Intelligence Certification, D.O.T Lebanon

LANGUAGES

- Arabic: Native Language
- English: Proficient