

## **Ziad Hamdan**

### **AI & Data Analytics Engineer**

Beirut, Lebanon

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## **SUMMARY**

AI & Data Analytics Engineer with **5 years of experience** applying machine learning and statistical techniques to extract insights from complex datasets. Strong background in data analysis, predictive modeling, and end-to-end ML project development using Python.

## **AREAS OF EXPERTISE**

Data Analysis, Machine Learning (Supervised & Unsupervised), Predictive Modeling, Feature Engineering, Data Visualization, EDA, Statistics, Python (Pandas, NumPy, Matplotlib, Scikit-learn), Clustering (KMeans, DBSCAN), Regression Models, Dashboard Reporting

## **EDUCATION**

Rafik Hariri University — El Mechref, Lebanon

### **Bachelor of Science in Computer Science**

September 2016 – June 2020

## **PROJECTS**

### **Customer Purchase Prediction Model**

- Performed data cleaning and exploratory data analysis on transactional datasets
- Built Logistic Regression and Random Forest models to predict customer purchases
- Evaluated models using accuracy, precision, recall, and ROC curves

### **Sales Forecasting & Trend Analysis**

- Conducted time-series analysis and feature engineering
- Developed regression-based forecasting models
- Visualized sales trends and seasonality patterns

### **Customer Segmentation Using Clustering**

- Applied KMeans and DBSCAN algorithms to identify customer segments
- Used PCA for dimensionality reduction and visualization
- Interpreted cluster behavior to support marketing strategies

## PROFESSIONAL EXPERIENCE

### **AI & Data Analytics Engineer**

InsightTech Solutions — Beirut, Lebanon

August 2020 – Present

- Developed machine learning models to support business decision-making
- Conducted data analysis and visualization for executive reports
- Collaborated with software teams to integrate AI models into production systems

### **Data Analyst (Part-Time)**

Analytics Hub — Beirut, Lebanon

January 2019 – July 2020

- Analyzed datasets and created dashboards for internal stakeholders
- Automated reporting processes using Python

## SKILLS

- **Technical skills:** Python, SQL, Machine Learning, Data Analysis, Statistics, Pandas, NumPy, Scikit-learn, Matplotlib, Power BI
- **Soft skills:** Analytical Thinking, Problem-Solving, Communication, Teamwork, Attention to Detail, Time Management

## LANGUAGES

Arabic (Native), English (Advanced), French (Basic)