MAHDI JAVADI

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438)308-6568 in Linkedin

Github

SUMMARY

Data Scientist skilled in ML, optimization, and data pipelines. Proficient in Python, SQL, Azure, and MLOps. Experienced in model deployment and business-driven AI solutions for finance and insurance.

EXPERIENCE

PSP Investments Montreal, Canada Senior Analyst, People Analytics Oct 2024 - Feb 2025

o Built Power BI dashboards, leveraged Azure Databricks for reporting, developed a Python-Java reward simulator for compensation modeling, and implemented an NLP sentiment analysis model.

Pricepoint Montréal, Canada

Mar 2024 - Jun 2024 Data Scientist

o Boosted booking prediction accuracy by 25% using time series models (ARIMA, Prophet, LSTM, pickup models) and ensemble learning (bagging, boosting with XGBoost, CatBoost). Applied hyperparameter optimization and cross**validation** to improve model performance and generalization.

TELUS Montréal, Canada **Business Analyst** Jan 2023 - Dec 2023

 Developed Looker and Tableau dashboards using SQL (Toad for Oracle) to enhance business intelligence, built a speech emotion recognition model with XGBoost, CNNs, BiLSTM, and Wav2vec, and optimized workforce planning with nonlinear optimization, achieving \$150K in cost savings.

McMaster University, DeGroote School of Business

Hamilton, Canada Jan 2020 - Sep 2021

Research Assistant

• Enhanced sepsis prediction by optimizing feature engineering, time series forecasting, and survival analysis, comparing ML models (Random Forest, Decision Tree, SVM, and Deep Learning Neural Networks) for early detection.

EDUCATION

• M.Sc Data Science and Business Analytics • HEC Montréal – GPA 3.44/4.3	Montréal, Canada 2021 – 2023
• M.Sc. Industrial Engineering Tarbiat Modares University – GPA: 3.91/4	Tehran, Iran 2017–2019
• B.Sc. Industrial Engineering Iran University of Science and Technology – GPA: 3.49/4	Tehran, Iran 2013–2017

SKILLS

Machine Learning: Supervised & Unsupervised Learning, Deep Learning, Ensemble Methods, Model Inter-

pretability, Feature Engineering

Time Series, Classification, Regression, Survival Analysis, Bayesian Inference **Predictive Analytics:**

Programming: Python, SQL, R

Power BI, Tableau, Matplotlib, Seaborn, Plotly **Data Visualization:**

Cloud & MLOps: Azure (Databricks), GCP (BigQuery), MLflow, CI/CD Pipelines **Optimization:** Linear & Non-Linear Programming, Stochastic Optimization

Languages: Persian, English, French, Azerbaijani

PROJECTS

Fin-RAG **Speech Emotion Recognition Sentiment Classification Recommendation System Text Classification**

PUBLICATIONS (See Google Scholar)

• "The impact of recency and adequacy of historical information on sepsis predictions using machine learning", Scientific Reports, 2022. DOI: 10.1038/s41598-021-00220-x.

ACHIEVEMENTS

- 2023 HEC Data Challenge - 1st Place: Forecasted CPU usage for proactive resource management.
- 2020 MIT COVID-19 Challenge - 1st Place: Created solutions for pandemic-related issues in India.
- Iran National IoT Hackathon 1st Place: Built IoT MVPs for real-world challenges. 2016