Amin Abbasi, M.S.

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SUMMARY _____

Expert in developing predictive models (Random Forest, LSTM, BERT) and data-driven solutions for transportation and marketplace optimization. Skilled in building end-to-end machine learning systems from data processing to deployment. Proficient in Python, SQL, Alteryx, Azure tools and cloud platforms (GCP) with experience in productionizing ML models. Strong ability to translate complex data into actionable business insights through interactive dashboards (Power BI, Tableau).

TECHNICAL SKILLS _____

Technical/Programming	SQL, NoSQL, Python (Pandas, NumPy, SciPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn), R, Hadoop, Apache Spark, Hive, MapReduce, PySpark, MongoDB, AWS, Azure, Alteryx , Fabric
Data Analysis/Modeling	Advanced-Data Analysis, EDA, Statistical Methods, Inference Testing, Sampling Techniques, LLMs, RNN & CNN, NLP, Machine Learning Models (Regression, Classification, Clustering, etc.), Time Series Models (ARIMA, LSTM, TFT), Data Mining, A/B Testing, Azure SQL, Azure Data Factory, BigQuery
Visualization	Tableau, Power BI, Matplotlib (Python), ggplot2 (R), Statistical storytelling, Explaining insights effectively
Interpersonal	Problem-solving, Teamwork, Attention to Detail, Critical Thinking, Curiosity, Time Management, Cross-Functional Collaboration,

WORK EXPERIENCE _____

Urban Transportation Center (UIC) — *Chicago, IL*

Data Analyst, Researcher — *Oct 2023 – Present*

- **Predictive Maintenance for Vehicle Fleets (CTA)**
  Random Forest (failure classification) & **LSTM/ARIMA** (wear forecasting). Azure **Databricks** for preprocessing and feature engineering, Python (**scikit-learn, TensorFlow**) for training. **Power BI** dashboards, automated Azure pipelines (**Data Factory**). 23% reduction in breakdowns.

- **Customer Sentiment Analysis for Public Transit (RTA)**
  Customer feedback analysis (**BERT NLP for sentiment, LDA for topics**). **Databricks** for text processing, **SQL** for CRM data. Python (**Hugging Face, Gensim**) model implementation. **Tableau** visualization of trends for vehicle/service improvements..

Digikala Online Marketplace

Business Analyst — *Jul 2017 – Mar 2021*

- **Fraud Detection System**
  Fraud detection using **Isolation Forest** (anomalous transactions) & **BERT** (fake reviews). Python (**scikit-learn, Hugging Face**). **Power BI** alerts. **Azure SQL** logs, **Azure Services** for scale. Improved platform trust.

- **Dynamic Pricing Optimization Model**
  Reinforcement learning (**Q-learning**) with XGBoost baseline for real-time price adjustments (+12% revenue). **Demand elasticity** & **competitor pricing**. **API** deployment with **MLOps** monitoring..

EDUCATION _____

M.S. in Business Analytics — *Chicago, IL*

University of Illinois Chicago (UIC) — 2023 – 2025

B.S. in Electrical Engineering

Azad University (IAU) — 2014 – 2018