Shah Nekouei

Data Scientist
Boulder, CO

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Objective

Creative and adaptable Data Scientist graduating Fall 2025, with a strong foundation in machine learning, including NLP, neural networks and time-series analysis. Skilled in transforming complex data into actionable insights and building intelligent systems. Passionate about applying AI to solve impactful problems across industries through a blend of analytical rigor and cross-disciplinary thinking.

Skills

- **Machine Learning:** Linear/Logistic Regression, Random Forest, SVM, Neural Networks, CNNs, LSTMs, Attention, Hyperparameter Tuning, Cross-Validation, Model Evaluation, Feature Engineering

- **Time-Series:** ARIMA, SARIMA, VAR, Prophet, LSTM for Sequences

- **Natural Language Processing (NLP):** TF-IDF, Word2Vec, GloVe, Tokenization, Text Classification, Sentiment Analysis, BERT, Transformers, Explainability (SHAP, EBM)

Technical Experience

Interview Outcome Prediction (Multimodal ML)   *CU Boulder*
Mar 2025 – Apr 2025
Predicted interview scores using prosodic speech and NLP features (TF-IDF, Word2Vec). Trained Random Forest and FNN models; explained results using SHAP and EBM.

Housing Market Forecasting (Time-Series)   *CU Boulder*
Dec 2024 – Present
Forecasted rent and home prices using SARIMAX and multilinear regression. Integrated CPI, mortgage rates, and unemployment data.

Education Policy Impact Modeling   *CU Boulder*
Aug 2023 – Dec 2023
Modeled the effect of teacher salaries on K–12 performance using regression and statistical testing.

Financial Analyst   *Ultimate Auto Group*
May 2018 – Aug 2023
Led forecasting, budgeting, and financial reporting to support operational decision-making.

Education

University of Colorado Boulder   Boulder, CO
M.S. in Data Science   *Expected: Fall 2025*

Metropolitan State University of Denver   Denver, CO
B.S. in Business Marketing   *May 2021*