

# 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.

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## 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)
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## 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.

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## Education

### University of Colorado Boulder

M.S. in Data Science

Boulder, CO

Expected: Fall 2025

### Metropolitan State University of Denver

B.S. in Business Marketing

Denver, CO

May 2021