

FAEZEH KHAZAE

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OBJECTIVE

Machine Learning Engineer and Data Scientist with strong experience in deep learning, generative AI, large-scale data analysis, and computational biology. Seeking full-time roles in Applied Machine Learning, Data Engineering, Data Science, or Computational Biology.

EDUCATION

University of California, Davis	Expected Jun 2026
M.Sc. in Computer Science	GPA: 4.0
University of Tehran	2020
M.Sc. in Information Technology Engineering	GPA: 18.5/20
Sharif University of Technology	2015
B.Sc. in Information Technology Engineering	GPA: 17.25/20

SKILLS

Programming	Python, SQL, R, MATLAB, C, JavaScript
Machine Learning	PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas
Generative AI	Transformers, Self-supervised learning, Representation learning
Computational Biology	Scanpy, Single-cell RNA-seq, Genomics
Systems & Tools	Git, SLURM, AWS, MLflow, Azure DevOps, Power BI

EXPERIENCE

ML Research Engineer — Quon Lab, UC Davis	Oct 2023 – Present
<i>Machine Learning & Computational Biology</i>	
• Developed CELECTION interpretable multiple-instance learning models for predicting phenotypes from single-cell RNA-seq data.	
• Built self-supervised transformer-based model ProMod on promoter DNA sequences across vertebrates to predict gene expression.	
• Developed Varformer , a set-based transformer for rare variant disease prediction using regulatory and gene-context features.	
Graduate Research Assistant — Robotics & Machine Intelligence Lab	Oct 2020 – Aug 2023
<i>Machine Learning & Computer Vision</i>	
• Developed a transformer-based multi-hop co-attention network for visual question answering (VQA).	
• Built pseudo-human non-player agents with vision-based perception and decision-making constraints.	
Freelance Developer / Data Scientist	Nov 2020 – May 2023
• Developed data-driven applications and ML pipelines for real estate and e-commerce clients.	
• Built recommendation systems and analytics dashboards using SQL, Python, and deep learning models.	
Teaching Assistant — University of Tehran / Sharif University of Technology	Oct 2018 – May 2023
• TA for Neural Networks, Multimedia Systems, Information Retrieval, and Special Topics in CS.	

PUBLICATIONS

CELECTION: Single-Cell Phenotype Modeling

Interpretable deep learning framework for predicting emergent phenotypes from single-cell populations. (Preprint in February)

Varformer: Modeling Somatic Mosaicism in Brain Disorders

Transformer-based model for disease prediction from sets of rare variants with interpretability analysis. (Preprint in February)

HONORS & AWARDS

- Ranked 7th nationwide in MSc entrance exam (2020)
- Top 1% in national undergraduate entrance exam (2015)