

GULUSAN ERDOGAN-OZGUL

Boston, MA • U.S. Citizen

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Machine Learning & Data Science — Decision Systems & Representation Learning

EDUCATION

MIT Professional Education – Applied Data Science Program (2022)

Northeastern University – Master of Business Administration (MBA)

Marmara University – Master's in Business Administration (Thesis)

Marmara University – Bachelor of Business Administration

RESEARCH & PROFESSIONAL INTERESTS

- Representation learning, clustering, latent structure modeling.
- Data-centric ML, robustness, model evaluation under real-world constraints.
- Decision systems, human-algorithm workflows, organizational decision processes.
- Responsible AI, fairness-aware modeling, transparency & ethical deployment.
- Ethical and sociotechnical dimensions of AI in institutional settings.
- Sociotechnical systems, governance of decision pipelines.

TECHNICAL SKILLS

- Python (NumPy, Pandas, Scikit-Learn, TensorFlow, Transformers)
- Dimensionality Reduction (PCA, SVD, t-SNE)
- NLP, Sentiment Analysis, Representation Learning
- Azure ML, SQL, Data Pipelines
- Model Evaluation: ROC-AUC, PR Curves, F1

SELECTED TECHNICAL PROJECTS

SVD Recommendation System – Collaborative filtering, RMSE/precision@k analysis.

CNN vs ANN Classification – Architecture comparison for MNIST.

Dimensionality Reduction (PCA/SVD/t-SNE) – Latent structure discovery.

Transformer Sentiment Modeling – Fine-tuned transformer classifier.

Imbalanced Learning – SMOTE, threshold tuning, ROC-AUC optimization.

Azure ML Pipelines – Reproducible cloud-based ML workflows.

CERTIFICATIONS & TRAINING

- Advanced Foundation Models & LLM Architecture - In Progress
- Applied Data Science - MIT Professional Education
- Data Science on Cloud with AWS - Great Learning
- SQL & Database Certification - Great Learning

PUBLICATIONS & ACADEMIC WORK

Master's Thesis (2002): Obstacles to Career Advancement for Women Managers - Survey-based empirical analysis (Marmara University).

ADDITIONAL INFORMATION

- Citizenship: U.S. Citizen
- Location: Boston, MA
- Interests: ML, representation learning, systems thinking, AI governance