

# KIAVASH FOULAD

Computer Science Student

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## PROJECTS

Optimization of K-Means Clustering using a Genetic Algorithm

University Project

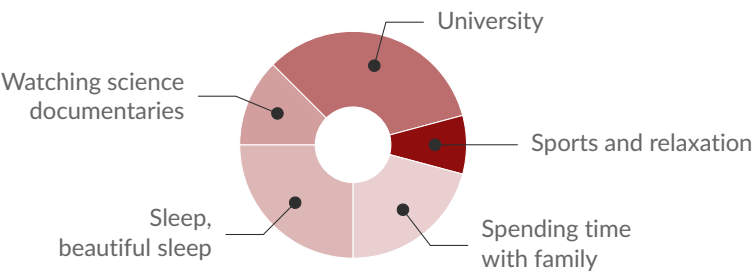
- Implemented a Genetic Algorithm from scratch to optimize data clustering, improving upon the standard K-Means approach by finding more effective centroids.
- Engineered the core GA components (selection, crossover, mutation) and validated performance by benchmarking against Scikit-learn's K-Means.
- Technologies Used:** Python, Pandas, Scikit-learn, NumPy, Matplotlib.

ML Pipeline for Mental Illness Diagnosis Prediction

University Project

- Engineered an end-to-end prediction pipeline using a ColumnTransformer to preprocess mixed data types and SMOTE to handle class imbalance.
- Compared multiple classifiers (Random Forest, SVM, KNN) and validated the top performer with 5-fold cross-validation to ensure robust and reliable results.
- Technologies Used:** Python, Pandas, Scikit-learn, imblearn, Matplotlib.

## A DAY OF MY LIFE



## MY LIFE PHILOSOPHY

"Continuous learning is the best algorithm for personal and professional growth."

## STRENGTHS

- Hard-working
- Eye for detail
- Resilience in Complex Tasks
- Machine Learning
- Data Science
- Python

## LANGUAGES

- Farsi
- English

## EDUCATION

B.Sc. in Computer Science

Amirkabir University

Sept 2021 – June 2026