KIAVASH FOULAD

Computer Science Student

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PROJECTS

Optimization of K-Means Clustering using a Genetic Algorithm

University Project

📅 5/31/2024

- 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.
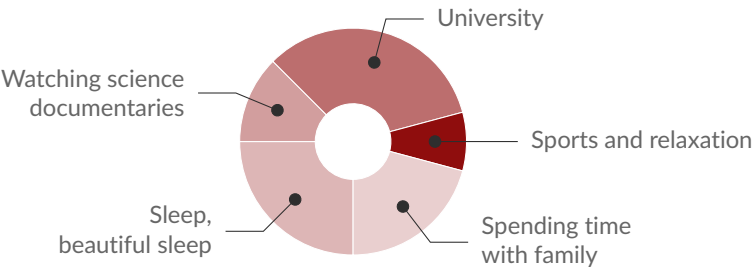- **Technologies Used:** Python, Pandas, Scikit-learn, NumPy, Matplotlib.

ML Pipeline for Mental Illness Diagnosis Prediction

University Project

📅 5/18/2024

- 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