

INFORMATION RETRIEVAL AND SEARCH ENGINES

PROJECT PROPOSAL

19011084 – Fatmanur Baş

19011088 – Dilara Delen

ONLINE PAYMENT FRAUD DETECTION

Why:

The reason why we chose this topic is that both customers do not suffer from grievances and the reputation of online sales companies and websites is not damaged. In this way, the trust between the customer and the company can be maintained. We plan to ensure its relevance to the course by performing it using Classification methods.

What:

It is possible to encounter various payment frauds while shopping online. We aim to develop a machine learning model over a dataset to detect these frauds and to understand which payment method they are most commonly performed on and determine whether there is any fraud in the purchases of new users.

How:

We will use Logistic Regression, Random Forest, and Decision Tree algorithms on Python. We will take a certain size of data (estimated 10000) from the dataset at (<https://www.kaggle.com/datasets/jainilcoder/online-payment-fraud-detection>) and perform operations on it.

When:

Week 1: Data Collection and Preprocessing

Week 2: Model Training and Evaluation

Week 3: Model Training and Evaluation

Week 4: User Interface Design and Implementation

Task	Week 1	Week 2	Week 3	Week4
Data Collection and Preprocessing				
Model Training and Evaluation				
User Interface Design				
User Interface Implementation				