**INVESTMENT DECISION RECOMMENDATION**

**SYSTEM PROJECT**

**Aim :** Building a recommendation system that can predict the Best Investment decision.

**Overview:**

* Data cleaning is done for the given Investment dataset.
* The Exploratory Data Analysis (EDA) is performed on the dataset where the data has analysed based on demographic distribution, Employment details and the investment behaviour of that individual.
* Based on the insights that had been gained above we have selected the appropriate features that contribute in making the Best Investment Decision.
* The correlation among the features in the data were analysed.
* Machine Learning models were built and their classification reports were obtained.
* The user-interface was built using Streamlit and plots were visualized.
* The Dashboard was built using PowerBI analyzing the various features that contribute to the Best Investment Decision.

**Libraries used:**

* Pandas
* Numpy
* Plotly.express
* Matplotlib.pyplot
* Seaborn
* Sklearn
* Yellowbrick

**Models built:**

* K-Means clustering
* Decision Tree
* Random Forest
* Ridge Classifier
* Support Vector Machine(SVM)

**Detailed view of the Datathon was given in Powerpoint presentation attached.**