

PS-1 SUMMARY

Week 1:

- We started with an introduction on machine learning, deep learning and explainable AI algorithms
- We read different research papers on XAI and studied some algorithms such as LIME, SHAP and TRUST
- We went through some basic implementation of these algorithms and XAI libraries used to implement them

Week 2:

- We started reading about some machine learning algorithms and classifiers such as decision trees, support vector machines, random forests etc
- We figured out the implementation part and how to implement these algorithms to make a machine learning classifier
- We also studied about some basic python programming used to implement these algorithms

Week 3:

- We implemented all the machine learning algorithms in python with the help of sklearn library on some dataset which we got from kaggle
- We studied the XAI models in greater detail and attempted to explain the predictions made by the model
- We tried to figure out the reason of the predictions with various XAI algorithms and how they are able to explain them

Week 4:

- We wrapped up the things together and started making the report and a presentation for our PS evaluation
- We spent some time in making the report and at the same time doing some hyperparameter tuning in our model