ML Final Lab Test

Msc Data Science

Team :

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Dataset: [Fetal Health Classification](https://www.kaggle.com/datasets/andrewmvd/fetal-health-classification)

Problem Statement :

* The project focuses on developing a predictive model for evaluating fetal health using the powerful Gradient Boosting Algorithm.
* This project encompasses a thorough exploration of data through Exploratory Data Analysis (EDA) and the optimization of machine learning models via hyperparameter tuning.
* In addition, it incorporates advanced techniques such as Private Aggregation of Teacher Ensembles (PATE) and Federated Learning, addressing privacy concerns by aggregating predictions from models trained on subsets of sensitive data.