# Comparison between decision tree and logistic regression for Grade Prediction

## Introduction

This report will compare the decision tree and logistic regression machine learning methods within the field of learning analytics using data from the OULAD [1] to predict students’ final results.

## Experimental Procedure Overview

The dataset will be organised and processed using Python with the NumPy, SciPy, Pandas, scikit-learn and matplotlib modules.

As a simplification, the dataset and result predictions will be limited to Pass or Fail (all other records are discarded).

## Performance

Comparisons: Training, evaluation, hyperparameter tuning prediction, general

## Conclusions

# References

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| [1] | J. Kuzilek, M. Hlosta and Z. Zdrahal, “Open University Learning Analytics dataset,” *Scientific Data,* vol. 4, no. 1, 2017. |