# ENGG2112 Weekly Progress Report

Group (e.g. TUT03-2): TUT01-11

Team Members: Dillan George, Edward Lewis, Georgina Maher, Will Vallis

Project Title: Vines, Variables and Value: An End-to-End ML Pipeline for Wine Vintage Prediction

Note briefly but clearly the tasks that have been assigned to each team member below. If the task has been completed, insert the date of completion. If the task is not complete, estimate a date when it will be completed and put it under “Date Due”. The “Task Name” is preferably a short title, e.g. “research known methods to detect Covid-19”. If the task is to be completed by only one person, leave the “Person Assisting” field empty.

Add or delete lines to/from the bottom of the table as necessary but do not delete tasks that were mentioned in previous reports. In other words, only add to the table or delete blank lines.

In class, each team member will verbally describe (in 3 minutes or less) to the tutor the progress of the tasks that they have been assigned, including but not limited to: difficulties encountered, solutions found, results obtained, follow-up actions. After individual reports are completed, one group member should summarise the team’s progress for the week. You may want to take turns to do this or have a single person represent the group every week.

Team Member Name: Edward Lewis

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| **#** | | **Task Name** | | **Person Assisting** | | **Date Due** | | **Date Completed** |
| 1 | | Testing classification models | | Georgina Maher | | 8/10/25 | | 1/10/25 |
| Outcome: Have a preliminary output of different Machine Learning models | | | | | | | | |
| 2 | | Pre-Processing data | | All | | 8/10/25 | | 30/9/25 |
| Outcome: Change data scale to a {Low, Medium, High} Rating system from a {1-10} rating system as well as remove all NA data points. | | | | | | | | |
| 3 | | Continue Pre Processing data | | All | | 16/10/25 | | 13/10/25 |
| Outcome: Further pre-process data | | | | | | | | |
| 4 | Price Models | | Ed Lewis | | 22/10/25 | |  | | |
| Outcome: Working on models for predicting Price | | | | | | | | | |
| 4 | Price Models (Gradient Boosting) | | All | | 29/10/25 | |  | | |
| Outcome: Continue working on Price models specifically hyperparameters for Gradient Boosting | | | | | | | | | |

Team Member Name: Dillan George

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| **#** | **Task Name** | **Person Assisting** | **Date Due** | **Date Completed** |
| 1 | Data Acquisition | Edward Lewis | 8/10/25 | 28/10/25 |
| Outcome: Have data sets ready to be used | | | | |
| 2 | Presentation | All | Wk 13 | NA |
| Outcome: Starting on formatting and beginning slides | | | | |
| 3 | Bootstrapping | All | 22/10/25 | 19/120/25 |
| Outcome: Ensure all classes is equally represented | | | | |
| 4 | Strap | Will | 29/10/25 |  |
| Outcome: Ensure all classes is equally represented | | | | |

Team Member Name: Georgina Maher

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| **#** | **Task Name** | **Person Assisting** | **Date Due** | **Date Completed** |
| 1 | Testing regression Models | Edward Lewis | 8/10/25 | 1/10/25 |
| Outcome: | | | | |
| 2 | Data summarising | Will Vallis | 16/10/25 | NA |
| Outcome: Summarising mean, median, mode, variance etc for data sets | | | | |
| 3 | Analysis Report | Will Vallis | 22/10/25 | 20/10/25 |
| Outcome: A clean report on the analysis of the data to help interpret and make informed decisions on our model | | | | |
| 4 | Final Report | All | 29/10/25 |  |
| Outcome: Began progress on final report | | | | |

Team Member Name: Will Vallis

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| **#** | **Task Name** | **Person Assisting** | **Date Due** | **Date Completed** |
| 1 | Model Analysis | Edward and Georgina | 8/10/25 | 3/10/25 |
| Outcome: Interpreted data outputs to understand next steps and best quality model | | | | |
| 2 | Data summary presentation | Georgina | 16/10/25 | 12/10/25 |
| Outcome: Overview and presentation of data summarisation | | | | |
| 3 | Neural Network | Ed Lewis | 22/10/25 | 20/10/25 |
| Outcome: Work on Neural Network Model | | | | |
| 4 | Shap | Dylan | 29/10/25 |  |
| Outcome: Work on Shap for quality model | | | | |