Meeting Minutes

W5 Tuesday

Note taker: Lara
Absent:

Topic	Discussion	Actionable
Task Breakdown	Everyone confirms understanding of the task at hand. **Task Deadline: Week 9 Sunday → 10 November** **Ideally finish assignment by the end of Week 8**	
Communication	Build project on github. Main way of sharing documents Have documentation / exploration summaries in the google drive Communicate on messenger.	
Member Availability	When is everyone free / able to communicate and does anyone have prior commitments? NO FLEX WEEK CHATS LOL Lara: ● Can't work on W7 Wed - Friday Emily ● Works on thursdays (1-9pm), sundays (till 7pm), tuesdays (2-7pm) Sarah: ● Occupied with a hackathon W6 Tom: ● No plans at the moment Emma ● Tues (flex week) away	Sunday 20th can call at night
Next steps	**Emma**: Find references (finance models + justification) **Sarah & Lara**: Distribution of data itself - how distributed and meaningful they are, charts of the variables. **Tom & Emily:** Look into collinearity	

	Which one of the highly correlated variables we want to get rid of. Shops, downtown and ATMs were all correlated with each other. Remove collinearity. Feature engineering	

Meeting Minutes

W7 Tuesday

Task Deadline: Week 9 Sunday → 10 November

Ideally finish assignment by the end of Week 8

Note taker: Lara
Absent:

Topic	**Discussion**
New insights!!	Tom: Split data on downtown vs uptown ● Could be leading to much different withdrawal amounts ● Consider collinearity. By dealing with the downtown relationship, we deal with the downtown and Using tut 6 Scatterplot with colours helps with categories Useful variables to include: Downtown, downtown centre Emma: Lit Reviews: ● Datasets don't match up to ours but look at time series data
Next steps	**Emma & Lara**: Building a model building function template **Sarah & Tom:** Filling up EDA google doc with current findings, exploring “third hump” in the withdrawal distribution and investigating if that can help classify our groups **Emily:** more EDA exploring **Emma and Emily**: Report
Next meeting time	**Whentomeet… TBD**

Meeting Minutes

W8 Friday

Task Deadline: Week 9 Sunday → 10 November

Ideally finish assignment by the end of Week 8

Note taker: Sarah
Absent:

Topic	**Discussion**
New insights!!	Cracked the code with an interaction term - test MSE ~0.26 Model comparison scaling vs no scaling in *model_comp.md* Current EDA section in the report is good.
Next steps	Work on the **report**: **Lara:** ● Feature Engineering ● Model selection ● Model interpretability **Emma:** ● Finding references (e.g. literature reviews) for our justification of models ● Future investigations **Sarah:** ● Distribution of withdraw ● Summary of main findings after most of the report is done ● Evaluation metrics ● Limitations and assumptions ● Conclusion **Tom:** ● Side-by-side correlation heatmap ● Justification of model/s and why not ridge etc ● Limitations and assumptions **Emily:** ● Evaluation metrics ● Discussion ● Conclusion **Pipeline notebook**
Next meeting time	**Whentomeet… TBD**

Meeting Minutes

W8 Monday

Task Deadline: Week 9 Sunday → 10 November

Ideally finish assignment by the end of Week 8

Note taker: Lara
Absent:

Topic	**Discussion**
Updates	Did we ever need to clean the data and look for outliers or nah? Or can we assume it was given to us clean? Lara: built a model building function template - Discussion of how we are going to select a model and justify our decisions - Discuss scaling data in terms of train and test data → fit scaling to training data then apply to test data? Emma: created detailed outline of report Emily and Sarah: added to sections of report and writing up observations from EDA so far Tom: more EDA What interaction terms do we want? DT x Centre x High (3 variables) DT x Centre (2 variables) Use downtown as a separator / interaction term. Maybe try all interaction variables and do a best subset selection. Theories on workday - Special days like public holidays → people wanting to pay in cash? - Workday → people working - Weekend → more people shopping - Depends on where people work in terms of whether workplace is downtown or not - Interaction variable???
Next steps	**Lara**: Fix section: Update MSW **Everyone else:** explore collinearity between shops and ATMs, more EDA
Next meeting time	**Whentomeet… TBD**