

## Q2 Weekly Schedule

- Week 1: Exploratory Data Analysis (Geo analysis, correlation heatmap, etc.), Data Cleaning (outlier removal, imputation, etc) and Feature Engineering.
  - These 3 procedures will be interconnected in a cyclical, agile process. This will be part of a greater feature selection process that overlaps into the model development part; we will consult correlation heatmap (to make sure we don't accidentally "rabbit-hole" into a dead-end EDA path), as well as consulting hypothesis testing.
- Week 2: Continuation of Week 1 tasks if more time is needed
- Week 3: Model Training, testing, and evaluation of metrics, hyperparameter fine-tuning with GridSearchCV, with evaluation (and data visualization) of metrics, along with revisiting of pre-modelling tasks
  - This is the portion where the final model should be created, with related tasks such as fine-tuning. Should such a scenario happen where the model is completely unsatisfactory and more feature analysis is necessary, this phase should also easily link back to the 3 interconnected, agile processes in week 1 and 2, with an easy, clean, automated way to pipeline newly discovered features to the current model with minimal code refactoring
- Week 4: Continuation of week 3 if more time is needed
- Week 5: Final Code Organization/Factorization, Dockerization.
- Week 6: Final Report is written

### Delegation of Responsibilities:

- The person good with Data Visualization and/or Latex will write the report. These people include: Radu, Nima
- The person good with the software development aspect (dockerization, python object oriented programming, etc.) will handle the code organization. These people include: Benson
- The person good at model training, model evaluation, fine tuning parameters, and model comparison techniques will work on the included models. These people include: Nima, Radu, Keagan, Benson
- The person good at data preparation and exploration, data cleaning, and feature engineering in Pandas, Numpy, and Matplotlib will work on the data analysis. These people include: Nima, Radu, Keagan, Benson