

10/3 Friday Frontend + Backend meeting

Project Overview:

- Create visualisation plots and models with the dataset & present the interpretations in the user interphase
- Need to create models, choose specific models & explain what is good about the model & come up with interpretations of this model, what happens when the model is used for different time & space

The general idea we currently have:

- Give Terry this general idea & feeling of what is going to happen with the dataset we have. So for example, if it's a random day in July, and the chances of rain are at 50%, how many delays can he expect & which directions are these flights headed to kind of indication. (No prediction! Just indication)
- (back end) coming up with the models with the current dataset + augmented dataset (details of this written below)
- (front end) **interpretations; which factors affect delay the most & how delay occurs**
- Is the modelling aspect missing?? → this one have to ask prof & clarify SOON

Augmenting the dataset:

- Currently using 2012 Jan dataset bc the 1987-2008 dataset is too big (subjected to changes) & the justification for this is that the factors, data types and descriptions in the 2012 one should be the same as the 1987 one, just that the sample size will be much smaller. But if can figure out a way to change, then we will change! :")
- Limited features are present in the dataset, so we also need to figure out a way to find **external data** to add to the current one
 - e.g. **using the date-time data, find weather conditions** of that particular date & see how that affects delay and stuff
- We should be able to find out in the end, which features are the most important & then frontend can do more interpretations on those

TO-DO BY NEXT MEETING:

- (backend) keep working on the current visualisations & add in data from external sources that might affect flight delays (basically creating the augmented dataset)
- (frontend) **create interphase** from the current visualisations done by backend & also **interview at least 5 individuals** that have experience working as flight controllers/ working in that particular industry
- **NEXT MEETUP WITH PROF ON MONDAY 13 MARCH LECT TIMING**
- **NEXT INTERNAL MEETUP ON FRIDAY 17 MARCH 1 PM**