**Honours Project Log**

**September 21st:** First honours class

**22nd:** Starter research into fake news and what already exists for project plan, define clearly the project.

Project:

Research the effects of fake news from a cyber security point of view, review current fake news detection methods, create a software capable of detecting fake news based on the strengths and weaknesses of fake news detectors already in use.

**23rd:** First meeting with project supervisor, discussed project, can create my own dataset, identify a cause and collect data on it.

Must find a way it is unique

Must research what has already been done

**24th:** working on proposal

**25th**: Ask to change project to hate speech

**29th:** Submit project scope

**October 6th:** Begin literature review, look for:

* What detectors already exist
* What methods are used/best
* How to create dataset
* Biases in datasets

**14th of October:**

* No supervisor meeting because of annual leave

**21st of October:**

* No supervisor meeting because of annual leave

**November**: not much happened as working on coursework instead of focusing on project

**Friday 9th December**: Meeting to debrief on the literature review and to talk about the next steps, mentioned having to connect dataset to already existing dataset

**19th December:**

Find one paper that has datasets already that will be used to compare to mine so that for writing a paper maybe that will be good, meeting with Chris where discussed adding functionality so that others can use the project too

**20th December – 23rd December:**

Implement functionality, create dataset and web app.

**21st -22nd December:**

Writing code to access API.

**December 23rd – December 30th:** Do the pre-processing of the dataset

**December 30th – January 1st:** classify tweets in the dataset using the vader lexicon, create the dictionaries used.

**January 2nd – January 3rd:** Writing the different classification algorithms.

**January 4th – 6th:** Start webapp using Django. Write forms, and begin javascript and css files. Set up all web app files properly.

**January 7th:** create the entire form and make it nice

**January 8th – 9th:** create area for results to be displayed properly

**January 9th – January 11th:** Add tfidf properly, figure out what it does exactly and why needed, save the tfidf model, import machine learning models to webapp, clean the code.

**January 12th:** write comments.

**January 13th:** Add validation for form fields

**January 14th – January 19th:** add negative tweets table, add comments and clean code, flag the very negative ones.