# Logbook

*It is useful to keep your notes about the project in a single place.*

*This should be handed in (on Moodle) at the end of the project. It will not be a major contributor to the mark, but will give us an idea of the progress that you have made and how you structured your work.*

Originally started project during academic year 2023/2024, paused for a year due to doing industrial placement. Retake project in February 2024, change of topic was also agreed with supervisor in March 2024 (Original topic was Probabilistic programming languages (PPL) applied to Cyber Security, new topic is Generate online grooming scenarios using LLMs (ChatGPT)).

Meetings with supervisor Rogerio every week starting in June 2024, then every 2 weeks starting July 2024, then back to every week starting August 2024. Sharing of work has been done via email, and later a GitHub repository was created for easy access and sharing.

#### Literature review documents:

### *Guarding the Guardians: Automated Analysis of Online Child Sexual Abuse (Juanita Puentes, Angela Castillo, Wilmar Osejo, Yuly Calderón, Viviana Quintero, Lina Saldarriaga, Diana Agudelo, Pablo Arbeláez; Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV) Workshops, 2023, pp. 3728-3732).*

### *Fine-Tuning Llama 2 Large Language Models for Detecting Online Sexual Predatory Chats and Abusive Texts (Thanh Thi Nguyen, Campbell Wilson, Janis Dalins).*

### *AEGIS: Online Adaptive AI Content Safety Moderation with Ensemble of LLM Experts (Shaona Ghosh, Prasoon Varshney, Erick Galinkin, Christopher Parisien).*

* *Helpful or Harmful? Exploring the Efficacy of Large Language Models for Online Grooming Prevention Ellie Prosser Matthew Edwards ellie.prosser@bristol.ac.uk matthew.john.edwards@bristol.ac.uk University of Bristol*
* *In-Context Impersonation Reveals Large Language Models’ Strengths and Biases. Leonard Salewski, Stephan Alaniz, Isabel Rio-Torto, Eric Schulz, Zeynep Akata, University of Tübingen, Tübingen AI Center, University of Porto, INESC TEC, Max Planck Institute for Biological Cybernetics*

### Notes for every meeting held

13th June 2024

* separate time from date
* sender 1st, receiver 2nd
* numbers are IPs
* start working on lit review

21st June 2024

* give AI prompt
* identify mechanism that executes trigger
* redo experiment 1 (missing prompt), change procedure (the prompt for the AI) (edited)
* procedure = prompt
* objective inputs switch them to procedure
* change report
* keep names the same (give prompt to AI)
* IP address from sender receiver change it later down the line
* drop it for now
* length of convo (end number) drop it as well
* put results in files and in a folder, name them by experiment
* ask AI to keep same format (edited)
* add more commentary to experiment results
* only interested in convos, nothing else
* record alternate dialogue
* write about what you learned about doing the first 13 experiments for next week (page, page and a half) (edited)
* next sets compare outcome of the different LLMs following certain criteria (keep format the same)
* make the prompts more complex (e.g. jack becomes more friendly/seductive, etc)
* data set in a table form
* how to generate synthetic data - [16:56] Rogerio de Lemos
* generate synthetic data using GANs and VAE or any other method - literature review

5th July 2024

* keep .csv
* change results to file
* use GitLab for the files
* focus on report ASAP
* write up report on initial experiments, not the newest ones
* analyse LLMs and what to generate from them
* prepare GitLab
* make data in the form of date, hour, sender, receiver, message

17th July 2024

* identify variants of Lottie scenario (BASIS)
* Example prompt:
* This is a conversation with Lottie and Chole. In the middle of this conversation (don't destroy the conversation) introduce further exchanges between Lottie and his mother (mum) and 2 additional friends, bob and Alice.
* ask tool to generate result in .csv file downloadable (the nicest possible) (edited)
* label conversations (what is original and what isn’t)
* re-prompt LLM until it does what you want
* Dissertation outline
* chapter 1 - Intro
* chapter 2 - Lit Review
* chapter 3 - project description
* chapter 4 - solutions/generations
* chapter 5 - conclusion
* chapter 6 – bibliography

7th August 2024

14th August 2024

21st August 2024

28th August 2024

04th September 2024

11th September 2024