

**Data Science Project 7PAM2002-0509-2023**  
**Semester C 2023**  
**Logbook (Activities and GitHub submissions)**

**Student Name and ID:** RUCHITABEN SHAILESHBHAI KABARIYA,22062263

**Project Title:** Analysing The Performance of Machine Learning Algorithms For COVID-19 Symptoms Checker

**Supervisor:** Mykola Gordovskyy

**Student GitHub URL:** <https://github.com/rk23aae/Data-Science-Project/tree/main>

**Number of versions of the code submitted on GitHub:** 5

**User documentation has been submitted on GitHub:** YES

**Student GitHub URL has been shared with markers:** YES

## Log of Activities

**Must record attendance at lectures and supervisions**

Week	Date	Activity incl. lectures & supervisions	Reason if not attend lecture or supervision	Weekly project progress. How lecture/supervision was helpful to your project.
1	14/05/2024	Lecture 1		Overview of the module. How to choose a project. Supervisor Allocation
2	21/05/2024	Lecture 2		Project and Data Management Plan. Data Selection. Module Scoring
3	31/05/2024	Supervision 1		Talk about the project title Discuss about the Source of Dataset
4	03/06/2024	Lecture 3		Data Ethics lecture part 1 Information on ethics. Basic idea on PDM plan
5	14/06/2024	Supervision 2		Give presentation of PDM plan Q&A by supervisor, then feedback Discussed about, how it will work
6	17/06/2024	Lecture 4		Data ethics lecture part 2 UK GDPR Law UH Ethical Policy

7	28/06/2024	Supervision 3		Discussed about Ethics Law Discussed about the Project Status and dataset.
8	12/07/2024	Supervision 4		Got suggestion to make project even better Get idea for my imbalance datasets
9	15/07/2024	Lecture 5		Discuss about results and suggestion for balance the data Got knowledge on report preparation
10	18/07/2024	Supervision 5		Discuss about increase the accuracy level Give idea to plot heatmap.
11	09/08/2024	Supervision 6		Discussed about the code and report Got suggestion to make Learning curve
12	21/08/2024	Supervision 7		Mock viva and feedback Suggestion in report

## Log of GitHub Submissions

Record the versions of code and user documentation submitted on GitHub

Date	Filename and version submitted to GitHub	Description of code and/or documentation submitted (what has been added since the previous version).
13/06/2024	Datasets File Project data management plan (Draft)	<ul style="list-style-type: none"> <li>In this commit, the clear imbalance datasets file is upload.</li> <li>Also, PDM report as draft also uploaded.</li> <li>Key features include the use of libraries like pandas for data manipulation and matplotlib for creating visualizations such as line charts representing stock price movements.</li> </ul>

14/06/2024	Final PDM report plan PDM final presentation	<ul style="list-style-type: none"> <li>In this commit, I uploaded the final approve PDM report plan as well as presentation.</li> </ul>
29/07/2024	Preprocessing and comparison.ipynb	<ul style="list-style-type: none"> <li>In this file, preprocess the imbalance datasets.</li> <li>Trains the models.</li> <li>Compare the model to get accuracy.</li> </ul>
13/08/2024	Covid_prediction.ipynb	<ul style="list-style-type: none"> <li>In this file, preprocess and the balance the data b SMOTE method.</li> <li>Train the models again and evaluates the accuracy, precision,f1score.</li> <li>Plot leaning curves .</li> <li>Commit figures and graphs.</li> </ul>
29/08/2024	Covid_prediction.ipynb	<ul style="list-style-type: none"> <li>Upload full code and report.</li> </ul>