1. Title and Introduction

- A clear and concise title that reflects the main objective of the project.
- A brief overview of the problem statement, the significance of the project, and the dataset used.

2. Problem Statement

- Clearly define the problem you are addressing.
- Explain why the problem is important and how it relates to real-world scenarios.
- Specify the goals and objectives of your machine learning project.

3. Data Collection and Preprocessing

- Describe the data sources and provide relevant information about the dataset.
- Explain how the data was collected and if any preprocessing steps were taken.
- Discuss data cleaning, handling missing values, and dealing with outliers.
- Detail any data transformations, feature engineering, or dimensionality reduction.

4. Exploratory Data Analysis (EDA)

- Provide insights gained from analyzing the dataset.
- Include visualizations (e.g., histograms, scatter plots) to highlight important characteristics.
- Discuss any patterns, trends, or correlations observed in the data.

5. Methodology

- Explain the machine learning algorithms or techniques used.
- Provide a rationale for choosing these methods and their suitability for the problem.
- Describe the train-test split or cross-validation strategy used to evaluate the models.

6. Model Development

- Present the architecture of the chosen model(s), including layers, units, and activation functions.
- Detail any hyperparameters used and how they were selected (e.g., learning rate, batch size).
- Discuss any regularization techniques applied (e.g., dropout, L2 regularization).

7. Model Training

- Describe the process of training the model(s) on the dataset.
- Include information about the number of epochs, optimization algorithm, and convergence criteria.
- Mention any adjustments made during training based on validation results.

8. Model Evaluation

- Provide the evaluation metrics used to assess the model(s) (e.g., accuracy, precision, recall, F1-score).
- Include the results of the evaluation for both the training and test datasets.
- Discuss the model's performance in the context of the problem statement.

9. Results and Discussion

- Summarize the main findings of the project.
- Compare different models' performance and discuss their strengths and weaknesses.
- Address any challenges faced during the project and how they were overcome.

10. Conclusion

- Recap the key takeaways from the project.
- Emphasize the project's contributions to solving the problem.
- Mention any potential future improvements or directions for further research.

11. References

• Cite any external sources, papers, or libraries used in the project.

12. Code Repository (Optional)

• If applicable, provide a link to the GitHub repository containing the project code.

13. Acknowledgments (Optional)

Acknowledge individuals, mentors, or resources that contributed to the project's success.

14. Student Details (Optional)

 Provide your contact information in case anyone wants to reach out regarding your project.

15. Dataset: https://data.mendeley.com/datasets/y6d3z6f8z9/1