Machine Learning Project Life Cycle

Problem Formulation

1 **Data Acquisition**

2 **Data Cleaning & Labelling**

3 **Exploratory Data Analysis (EDA)**

4 **Split Dataset**

Train Set

Test Set

5 **Data Preprocessing**

Transform

Final Testing

6 **Model Training**

7 **Model Performance Evaluation**

K-Fold Cross Validation

8 **Hyperparameter Tuning**

9 **Final Evaluation**

10 **Model Deployment**

Documentation