Machine Learning Methodology – Telco Customer Churn
Mohammed Alkhamis - 2240005057 Lab-02

1

Dataset Selection

Choose Dataset
Select Telco Customer Churn tabular dataset from Kaggle

2

Load Data
Load dataset in Python using Pandas, preview and check columns

Data Loading

3

Data Preprocessing

Clean and Prepare
Handle missing values, fix data types, remove ID, encode categories, scale features

4

Divide Data
Split dataset into training and testing sets (e.g., 80/20)

Train/Test Split

5

Model Selection

Choose Model
Select a classification model (e.g., Logistic Regression, Random Forest)

6

Train Model
Train the chosen model on the training set

Model Training

7

Model Evaluation

Assess Performance
Evaluate model using Accuracy, Precision, Recall, F1-score, Confusion Matrix

8

Summarize Findings
Summarize the best model and key findings

Results