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**BACHELOR IN SOFTWARE ENGINEERING (HONOURS)**

Mini Project - Presentation

Jan 2025

Module: EC3357 (Machine Learning)

Lecturer: Ms. R.Rajesvary

Instructions:

Due Date:

Weighting: 15% of the total assessment for the course

Total mark is 100.

This question paper consists of 2 printed pages

(excluding front cover)

**Introduction:**

The purpose of this assignment is to assess your ability to effectively communicate technical findings related to the evaluation of machine learning models and algorithms for a given dataset and its applications. You will be required to analyse model performance, compare algorithms and present your findings.

Task:

Dataset Selection: Choose a dataset relevant to a specific application (e.g., healthcare, finance, marketing, etc.). Briefly explain the dataset, including its features and intended use.

Model Selection & Evaluation: Implement at least two machine learning algorithms suitable for the given dataset. Train and test the models, evaluating their performance using appropriate metrics (e.g., accuracy, precision, recall, F1-score, RMSE).

Comparison & Justification: Compare the performance of the selected models and justify which one is more suitable for the given application. Discuss potential improvements.

Communication of Findings:

Prepare a technical report summarizing the evaluation, methodology, results, and recommendations. Create a presentation explaining the findings in a clear and concise manner

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Assessment Criteria:

Clarity and effectiveness of communication (both written and verbal) – 15%

Depth of analysis in model evaluation and comparison – 15%

Justification of algorithm choices and performance metrics – 15%

Ability to present complex concepts in an understandable way for different audiences – 15%

Overall structure, coherence and professionalism of the report and presentation – 40%

Submission Requirements:

A written report (1500–2000 words)

A PowerPoint presentation (10–15 slides)