DEPARTMENT OF COMPUTER & INFORMATION SYSTEMS ENGINEERING
BACHELORS IN COMPUTER SYSTEMS ENGINEERING
Course Code: CS-324
Course Title: Machine Learning
Open Ended Lab
TE Batch 2021, Spring Semester 2024
Grading Rubric
TERM PROJECT

Group Members:

Student No.	Name	Roll No.
S1		
S2		
S3		

CRITERIA AND SCALES				Marks Obtained		
				S1	S2	S3
Criterion1: Data Collection						
0	1	2	3			
The student has not chosen a suitable dataset for predictive modeling.	The student has chosen a dataset, but it may not be suitable for predictive modeling, or it lacks enough features.	The student has chosen a suitable dataset for predictive modeling, and it has enough features to work with.	The student has chosen an excellent dataset for predictive modeling, which has rich features and is well-suited for the task.			
Criterion 2: Data Preprocessing						
0	1	2	3			
The student has not performed data cleaning, handling missing values, or encoding categorical variables	The student has performed basic data cleaning and handled missing values, but has not encoded categorical variables.	The student has performed data cleaning, handled missing values, and encoded categorical variables.	The student has performed thorough data cleaning, handled missing values effectively, and encoded categorical variables efficiently.			
Criterion 3: Exploratory Data Analysis (EDA)						
0	1	2	3			
The student has not performed exploratory data analysis (EDA) or provided minimal analysis with no meaningful insights.	The student has performed basic exploratory data analysis, but the analysis lacks depth, and insights are limited	The student has performed thorough exploratory data analysis, identifying important variables, correlations, and providing meaningful insights.	The student has performed exceptional exploratory data analysis, providing comprehensive insights, and utilizing a variety of visualization techniques effectively.			
Criterion 4: Feature Engineering						
0	1	2	3			
The student has not performed feature engineering.	The student has performed basic feature engineering, but has not created new features or scaled/normalized existing features.	The student has performed feature engineering, creating new features and scaling/normalizing existing features if required.	The student has performed advanced feature engineering, creating meaningful new features and effectively scaling/normalizing existing features.			
Criterion 5: Model Building						
0	1	2	3			
The student has not built any predictive models.	The student has built models using machine learning algorithms, but the implementation lacks depth, and multiple algorithms were not used.	The student has built models using multiple machine learning algorithms, implementing them using Python packages, and evaluated their performance.	The student has built models using multiple machine learning algorithms, implemented them both using Python packages and without Python packages, and			

			thoroughly evaluated their performance.			
Criterion 6: Model Evaluation						
0	1	2	3			
The student has not evaluated model performance or has done so inadequately.	The student has evaluated model performance but has not used different techniques or compared the performance of different models.	The student has evaluated model performance using different techniques, compared the performance of different models, and selected the best-performing model.	The student has thoroughly evaluated model performance using various techniques, performed a detailed comparison of different models, and selected the best-performing model based on comprehensive evaluation metrics.			
Criterion 7: Conclusion						
0	1	2	3			
The student has not provided a conclusion or has provided a conclusion with minimal insights.	The student has provided a basic conclusion with some insights but has not discussed model limitations or suggested improvements.	The student has provided a detailed conclusion with meaningful insights, discussed model limitations, and suggested improvements.	The student has provided an exceptional conclusion with comprehensive insights, thorough discussion of model limitations, and insightful suggestions for improvements.			
Criterion 8: Report						
0	1	2	3			
The submitted report is unfit to be graded.	The report is partially acceptable.	The report is complete and concise.	The report is exceptionally written.			
			Total Marks:			