

Group Assignment Marking Rubric

Criterion	Does not meet expectations	Meets expectations	Exceeds expectations
Task 1	<ul style="list-style-type: none"> <input type="checkbox"/> Forecasting problem is vague or lacks clarity, failing to establish the real-world application of the forecasting problem <input type="checkbox"/> Evaluation Criteria are superficially defined or inconsistently explained, providing little insight into how forecasting performance is assessed <input type="checkbox"/> Variables are poorly categorised, leaving gaps or inaccuracies in data understanding <input type="checkbox"/> Missing Values analysis is inadequate, incomplete, or missing altogether for either the training or test dataset <input type="checkbox"/> Summary statistics and distributions are either missing or presented without meaningful discussion, outliers, or data characteristics <input type="checkbox"/> The Problem Description is disorganised, with arguments that are inaccurate or lack cohesion 	<ul style="list-style-type: none"> <input type="checkbox"/> Forecasting problem is adequately described, giving some real-world application examples. <input type="checkbox"/> Evaluation Criteria are reasonably clear, providing a satisfactory overview of how performance is measured <input type="checkbox"/> Variables are categorised by type, with a basic explanation of the classification process <input type="checkbox"/> Missing Values analysis identifies the presence of missing data in both training and test datasets, but the insights are limited <input type="checkbox"/> Provides a basic discussion of the summary statistics and distributions in the dataset, covering key trends and features <input type="checkbox"/> The Problem Description is sufficiently organised, offering coherent and clear arguments 	<ul style="list-style-type: none"> <input type="checkbox"/> Forecasting Problem is well-defined, offering an insightful analysis with comprehensive real-world applications <input type="checkbox"/> Evaluation Criteria are detailed and persuasive, fully explaining how forecasting performance is assessed and why the chosen criteria are relevant <input type="checkbox"/> Variables are categorised accurately, with a thorough and clear explanation of each variable type and its relevance <input type="checkbox"/> Missing Values analysis thoroughly examines the training and test datasets, recognising patterns and their implications <input type="checkbox"/> Provides an engaging summary of statistics and distributions in the dataset, highlighting notable trends, outliers, and their implications <input type="checkbox"/> The Problem Description is well-structured, with clear, persuasive arguments demonstrating refined critical thinking
Task 2	<ul style="list-style-type: none"> <input type="checkbox"/> Numerical feature cleaning is inadequate or incomplete, with residual non-numeric values left in key features <input type="checkbox"/> Fewer than five new features are created, or the new features do not effectively add information to the dataset <input type="checkbox"/> Missing values are not properly imputed or are not addressed across all features in the datasets <input type="checkbox"/> Categorical encoding is poorly handled, with errors in mapping to frequent categories or encoding multiple values <input type="checkbox"/> Data preparation for predictive models is minimal or lacks explanations, leaving the dataset unprepared 	<ul style="list-style-type: none"> <input type="checkbox"/> Numerical features are cleaned, with non-numeric values removed where necessary <input type="checkbox"/> At least five new features are created, providing additional insights or useful information <input type="checkbox"/> Missing values are imputed for datasets, with reasonable assumptions made in the imputation <input type="checkbox"/> Categorical features are appropriately encoded, using the five most frequent values and an 'other' category where needed <input type="checkbox"/> Additional data preparation steps are clearly explained and contribute to the dataset's suitability 	<ul style="list-style-type: none"> <input type="checkbox"/> Numerical feature cleaning is comprehensive, converting all non-numeric data into numerical format <input type="checkbox"/> Five or more new features are created, with significant insights about the transforming complex variables effectively <input type="checkbox"/> Missing values are handled strategically to enhance the dataset's integrity and predictive power <input type="checkbox"/> Categorical encoding is expertly managed, appropriately grouped and encoded, with accurate mapping to frequent values <input type="checkbox"/> Additional data preparation is insightful and significantly improve dataset's utility

Criterion	Does not meet expectations	Meets expectations	Exceeds expectations
Task 3	<input type="checkbox"/> Exploratory Data Analysis is insufficient, with unclear explanations and a lack of insights <input type="checkbox"/> Builds and explains fewer than 3 ML models and fails to take into account the outcomes or previous task (data preparation, EDA, etc) <input type="checkbox"/> Explanations for model choices and processes are unclear or lacks <input type="checkbox"/> Fitting and tuning processes are unclear or absent and lacks cross-validation or proper hyperparameters tuning. <input type="checkbox"/> Steps are poorly explained or lack clarity. <input type="checkbox"/> Best algorithm selection is unclear or unjustified and prediction process is poorly explained <input type="checkbox"/> Fails to submit predictions on Kaggle or provide ranking/score	<input type="checkbox"/> Exploratory Data Analysis reveals some relationships between features and the target and explanations are reasonably clear <input type="checkbox"/> Builds and explains 3 ML models with informed by the outcomes of previous task <input type="checkbox"/> Provides clear explanations for model choices and processes <input type="checkbox"/> Models are properly fit and tunes via cross-validation and hyperparameter tuning is performed and explained. <input type="checkbox"/> Steps are clearly explained <input type="checkbox"/> Clearly explains the rationale for selecting the best algorithm and prediction process using the dataset is explained <input type="checkbox"/> Provides Kaggle ranking, score, and basic comments	<input type="checkbox"/> Exploratory Data Analysis uncovers insightful relationships, accompanied by clear and comprehensive explanations <input type="checkbox"/> Builds and explains 3 ML models with well-structured based on insights from previous task <input type="checkbox"/> Explanations for model choices and processes are comprehensive and insightful <input type="checkbox"/> Employs advanced techniques for model fitting and tuning and hyperparameter tuning is thorough and well-justified. <input type="checkbox"/> Explanations are comprehensive and demonstrate deep understanding <input type="checkbox"/> Provides a well-reasoned justification for the best algorithm and prediction process is thoroughly explained and well-documented <input type="checkbox"/> Provides Kaggle ranking, score, and insightful comments/suggestions for improvement
Presentation	<input type="checkbox"/> Team members are not introduced, or introductions are incomplete <input type="checkbox"/> Lack of clarity or context about team member roles or contributions <input type="checkbox"/> Delivery is unclear, monotonous, or lacks confidence <input type="checkbox"/> Distracting mannerisms or overreliance on notes <input type="checkbox"/> Presentation is significantly shorter or longer than allocated time <input type="checkbox"/> Pacing ins rushed or excessively slow, affecting clarity <input type="checkbox"/> Ineffective time allocation for key points or transitions	<input type="checkbox"/> Some team members are introduced <input type="checkbox"/> Brief mention of some member's role or contributions <input type="checkbox"/> Clear and audible delivery with appropriate pacing <input type="checkbox"/> Limited distracting mannerisms or overreliance on notes <input type="checkbox"/> Presentation stays within the allotted time frame <input type="checkbox"/> Appropriate pacing and time allocation for key points <input type="checkbox"/> Smooth transitions between sections or topics	<input type="checkbox"/> Clear and engaging introductions of all team members <input type="checkbox"/> Provides relevant context about all team members' roles and contributions <input type="checkbox"/> Confident, engaging, and enthusiastic delivery <input type="checkbox"/> Polished and professional presence, minimal distractions <input type="checkbox"/> Precise time management, effectively utilising the allotted time <input type="checkbox"/> Skilful pacing and emphasis on critical information <input type="checkbox"/> Seamless transitions, maintaining audience engagement

Text Answers / Quality of writing	<input type="checkbox"/> Writing is weak <input type="checkbox"/> Numerous grammatical and spelling errors are apparent <input type="checkbox"/> Organisation is poor <input type="checkbox"/> Style is not appropriate for discipline	<input type="checkbox"/> Writing is adequate <input type="checkbox"/> Some grammatical and spelling errors are apparent <input type="checkbox"/> Organization is logical <input type="checkbox"/> Style is appropriate for discipline	<input type="checkbox"/> Writing is of superior qualitys <input type="checkbox"/> No grammatical and spelling errors apparent <input type="checkbox"/> Organization is excellent <input type="checkbox"/> Style is exemplary
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