Project Scope Document
MVP for AI/ML EPC Rating System
Timeline: 5 Days

If we complete in 4 days for better testing, it will help

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1. Model Development

Develop and test multiple models for EPC (Energy Performance Certificate) rating prediction:

- Traditional Machine Learning models
- Neural Networks
- Ensemble models
- RAG-AI (Retrieval-Augmented Generation) for explainability or support use
- (If you can include any other models in the time, it'd be appreciated)

All models will be tested using your sample dataset and measured against actual historic EPC ratings.

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2. Evaluation Metrics

The following metrics will be used to evaluate model performance:

- Accuracy
- F1-Score (to handle any class imbalance)
- Confusion Matrix
- ROC-AUC Score (multi-class adaptation)
- Inference Time
- Model Interpretability/Complexity (where relevant)

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3. Deliverables

A. Visual Webpage Module

- A simple interactive webpage/module for each model

- Drop-down selection to choose a sample input (from dataset)

- Display of EPC score (A–E) output per model **(** If you can also show (individual data point's) performance metrics alongside rating (A-E) resulting from your AI/ML. No problem if you can't. As long as final test results are in report then that's enough ● Clear identification of the model generati**)**
- Clear identification of the model generating each result

B. Source Code

- Full source code of all models provided

- Enables comparison with your in-house implementation

C. Evaluation Report

- Summary of testing process and dataset usage

- Model performance insights with visualizations

- Recommendation of best-performing model
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- Rationale on choice of models (few lines/bullets)

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4. Confidentiality & Access

- You will provide:
    - Access to a company email
    - Snowflake credentials
    - Confidential EPC calculation formula for modeling

If you still want to talk to me on Telegram

Animekid01

DISCORD

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