MINI PROJECT REPORT FORMAT

1. Title Page

- Title of the Project
- Name of the students

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2. Abstract

- Brief summary (150–250 words) of:
  - Problem statement
  - Methodology used
  - Key findings or results
  - Significance or applications

(Tip: Write this last — it should summarize the whole project.)

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3. Keywords

- 4–6 relevant terms (e.g., *Machine Learning, Data Science, Regression, Model Evaluation*).

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4. Introduction

- Background / context of the problem
- Motivation for the study
- Problem statement
- Objectives of the Project
- Novelty of your work (what's new)

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5. Literature Review / Related Work

- Overview of previous research and existing methods
- Comparison of techniques and their limitations
- Gaps with the earlier work (why your work is needed)
- Following is the mandatory table in the literature review

Table 1. Empirical review of existing methods

Reference	Method Used	Findings	Results	Limitations
Sathiparan, Jeyananthan & Subramaniam (2024)	Machine Learning	Predictive analysis of pervious concrete compressive strength with fly ash	Increased accuracy in predictions	Limited to specific concrete types

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⚙ 6. Methodology / Proposed System

- Description of the approach, model, or system implemented
- Architecture / workflow diagram
- Algorithms or mathematical formulations
- Tools, libraries, and frameworks used
- Pseudocode (if applicable)

Subsections example:

- 6.1 Data Collection and Preprocessing
- 6.2 Feature Engineering
- 6.3 Model Design / System Architecture
- 6.4 Training and Evaluation Setup

💾 7. Implementation

- Detailed explanation of implementation steps
- Technologies and platforms used
- Programming languages / frameworks
- Challenges faced and how they were handled
- Screenshots / sample outputs

📊 8. Results and Discussion

- Experimental setup (hardware/software environment)
- Performance metrics (accuracy, precision, recall, etc.)
- Graphs, tables, and visualizations
- Comparison with existing approaches
- Interpretation of results and key insights

🔥 9. Conclusion and Future Work

- Summary of major findings
- Limitations of the current work
- Scope for further research or improvement

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10. References

- Properly formatted references in IEEE format.
- Include all papers, books, and web sources cited