Joint Tech Internship Community Program

Generative AI Consortium (MSME)

SystimaNX IT Solutions Pvt Ltd.

AI/ML Internship - Deep Learning

Assignment 2

Demand Prediction

Planning Phase Document

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Project Planning for Demand Prediction

1. Introduction

This document outlines the project planning phase for our demand prediction project. The objective is to systematically define tasks, assign timelines, and track progress to ensure successful project completion.

2. Team Collaboration

- **Brainstorming Session:**
  - Gathered all team members to discuss the project scope and requirements.
  - Identified critical tasks, resources needed, and potential challenges.

- **Task Outlining:**
  - **Data Preprocessing:** Clean and preprocess the data, including handling missing values and outliers.
  - **Feature Engineering:** Develop additional features that enhance model performance.
  - **Model Selection:** Choose appropriate machine learning algorithms for demand prediction.
  - **Model Training and Evaluation:** Train the selected models and evaluate their performance.
  - **Hyperparameter Tuning:** Optimize model parameters for better accuracy.
  - **Deployment:** Plan for deploying the model in a production environment.

3. Timeline Assignment

Task	Assigned To	Deadline
Data Preprocessing	Surya Prasath	Week 1
Feature Engineering	Suriya Balaji	Week 2
Model Selection	Pagalavan	Week 3
Model Training and Evaluation	Suriya Balaji	Week 4
Hyperparameter Tuning	Pagalavan	Week 5
Deployment	Surya Prasath	Week 6

4. Progress Tracking

- Weekly meetings will be held to review progress on assigned tasks.
- Utilize project management tools like Trello or Asana to document progress and milestones.
- Create an Excel file to track the completion of tasks, with notes on any challenges faced.

5. Conclusion

This planning document will guide our project execution, ensuring that we remain on schedule and address challenges effectively.