

Project Title:

Data-Driven Prediction of Temperature in CFD Simulations Using Ensemble Models.

Week 6 (Mar 14 – Mar 20, 2025)

Tasks Completed:

- Finalized the regression model architecture with lag features and moving averages integrated from CFD data.
- Implemented feature scaling (standardization) to improve training stability.
- Initiated full-scale model training using the complete CFD dataset with GPU acceleration.

Challenges Faced:

- GPU memory limitations while processing large temporal batches.
- Difficulty in balancing model complexity and training time.