CSE523 MACHINE LEARNING

Weekly Report 5: 9 March 2024

WDL

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Project 8: Athlete performance in collegiate basketball: Predicting match line-up (Visualization on Dashboard)

Week 5: Model Training and Experimentation

Accomplishments:

- Initiated model training using various machine learning techniques, including linear regression, k-nearest neighbors (KNN), and other simple algorithms suitable for experimentation.
- Implemented basic hyperparameter tuning for each algorithm to optimize initial performance without delving into complex configurations.
- Explored feature scaling and normalization techniques.

Challenges:

- Managing the complexity of model selection and evaluation, considering trade-offs between simplicity and performance.
- Interpreting results from diverse models and techniques, understanding their strengths and limitations in the context of the predictive task.
- Addressing potential challenges with data compatibility requirements for different algorithms, ensuring consistency.

Next Steps:

- Analyze results from the experimentation phase to identify promising approaches for further refinement and evaluation.
- Prepare for the next phase of the project, which may involve additional experimentation or refinement based on early findings and feedback.
- Plan out the layout of the Dashboard for visualization.