



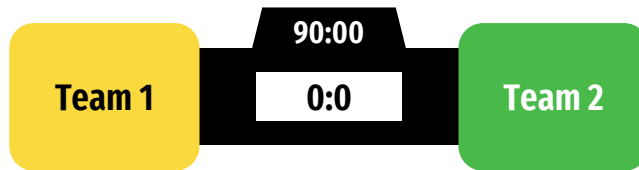
Predicting Soccer Injuries with Machine Learning

Module 6: Implementation and Evaluation

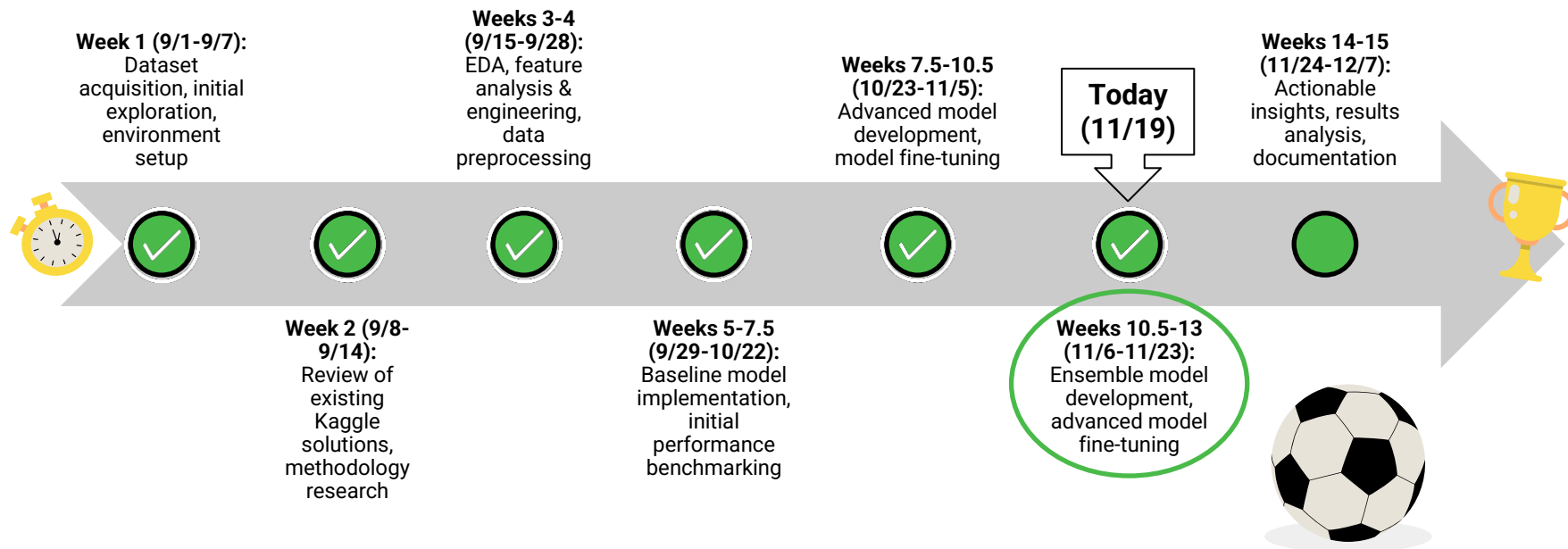
Jennifer Lawless

DASC 9311: Data Science Project

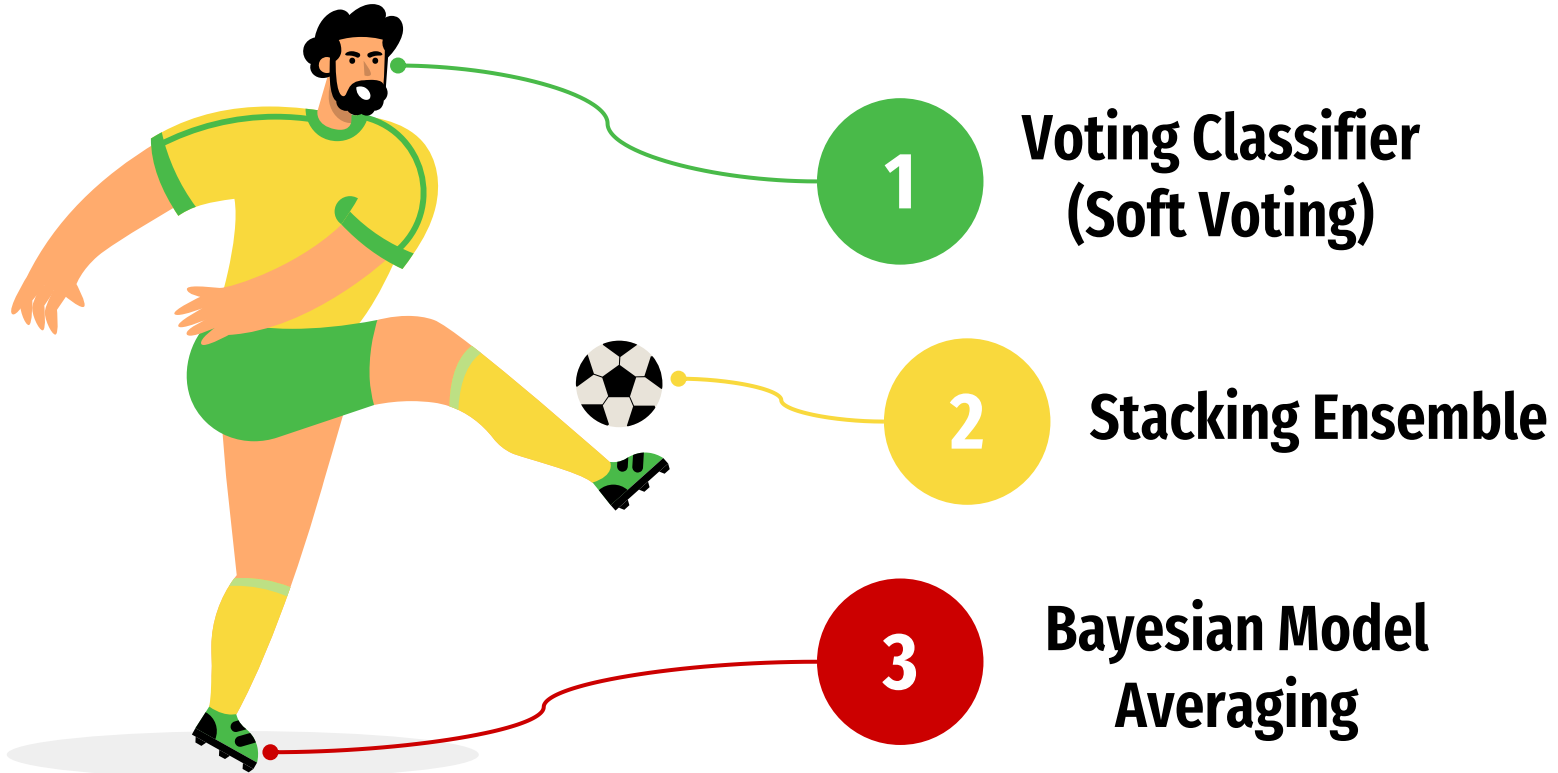
November 19, 2025



Project Timeline



Ensemble Modeling Approach

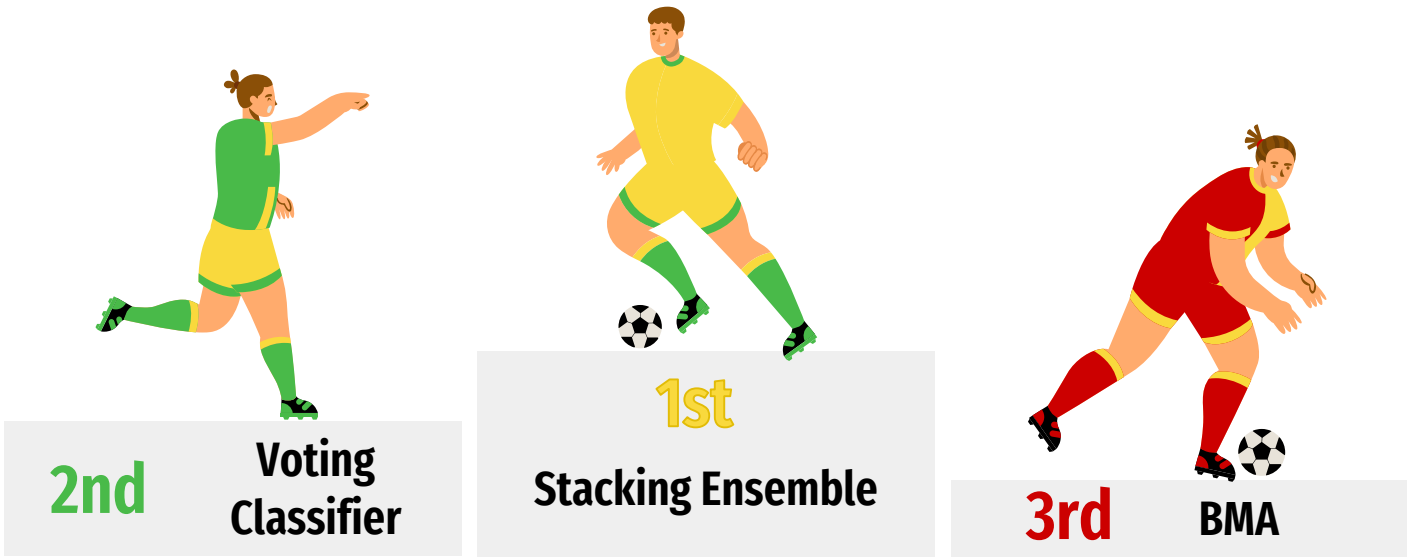




Ensemble Results



Model	Model 6: Voting Classifier (Soft Voting)	Model 7: Stacking Ensemble	Model 8: Bayesian Model Averaging
Metrics	Accuracy: 0.950 Precision: 0.953 Recall: 0.948 F1: 0.950 ROC-AUC: 0.990	Accuracy: 0.951 Precision: 0.951 Recall: 0.952 F1: 0.951 ROC-AUC: 0.990	Accuracy: 0.950 Precision: 0.953 Recall: 0.948 F1: 0.950 ROC-AUC: N/A



Next Steps



Injury Prevention

Determine and provide actionable insights on injury prevention

Final Report

Write up the final report and documentation for Module 7

Thank You!

