SCHEDULION

PROJECT PROPOSAL









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MOST VALUABLE PLAYERS



ANDREW

BACK-END ENGINEER ARTIFICIAL INTELLIGENCE MACHINE LEARNING



FRONT-END ENGINEER





JOEY

ARTIFICIAL INTELLIGENCE MACHINE LEARNING



BACK-END ENGINEER
ARTIFICIAL INTELLIGENCE
MACHINE LEARNING



OUR PROJECT

Optimization meets probability meets constraint satisfaction

Algorithms and Artificial Intelligence fans unite! A system that can assist LMU's basketball team and coaches in constructing the best schedule of opponent teams for LMU's basketball season

OUR PURPOSE

WINS

Provide LMU's basketball department with the resources to produce a schedule conducive to wins



QUALITY GAMES

Schedule opponents that ensure a strong strength of schedule by calculating the multivariable *NET* score



AUTOMATION

Automate a tedious task previously done by-hand and prone to human-error

N.E.T. RANKING

TEAM VALUE INDEX

NET

WINNING EFFICIENCY PERCENTAGE

ADJUSTED MIN **PERCENTAGE**

SCORING MARGIN

A team's offensive its defense

Calculated by dividing a team's wins by its total games played

A winning percentage that is weighted based on location and result

A team's total points minus its opponent's points

Takes into

account

opponent,

location, and

winner

efficiency minus efficiency

PROJECT SCOPE



ALGORITHM

Form a model that produces the *NET* value, given the variables, past schedules, and raw data



MACHINE LEARNING

Produce a model that assigns a score to each opponent and computes strength of schedule for a given schedule



APPLICATION

A desktop application and schedule building platform to allow the LMU Athletics Department to login and create schedules conducive to wins

