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PROJECT TITLE: Predicting Professional Golf Player Annual Earnings using Machine Learning

PROBLEM DESCRIPTION: Professional golfers compete annually in various tournaments and win prize money based on their tournament finishes. Players statistics are kept in each tournament relative to each shot on the course (i.e. shots from the tee, approaching the fairway, and on the green). The goal of this project will be to build a regression model that predicts a generic players annual earnings potential based on individual performance measures (i.e. driving distance, driving accuracy, rough tendency, made fairways, made greens, one putt percentage, etc.)

TYPE OF THE PROBLEM: This will be a supervised learning problem. Features will be considered from three categories (tee shots, fairway shots, and green shots).

TECHNIQUES THAT MAY BE USED: The data set for player performance and prize earnings is publicly available on https://www.pgatour.com/stats. Data will be extracted and consolidated to build a player data set spanning multiple years and tournaments. The goal will be to determine the best regression method and hyperparameters to predict earnings from player performance.

HYPERLINK OF THE PROBLEM DESCRIPTION: https://github.com/nosliwes/dsa5103