

# Online Learning with Expert Advice for Sports Betting

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## Overview

- The **goal** of this project is to apply online learning algorithms to derive profitable sport bets without prior knowledge of the games.
- The problem can be solved in the setting of online learning with expert. In this framework the learner must forecast the outcome of a certain event. He is given a pool of experts which provide advices in the form of forecasts over the outcome of the event. Each expert is assigned a weight according to how reliable he is. The concept of reliability is defined through a performance measure or loss function.
- In our case bookmakers are the experts and their advices consist of probability distributions over the outcome of a match (which are extracted from the odds). The loss function plays a crucial role.

## Method

## Results

## Conclusion