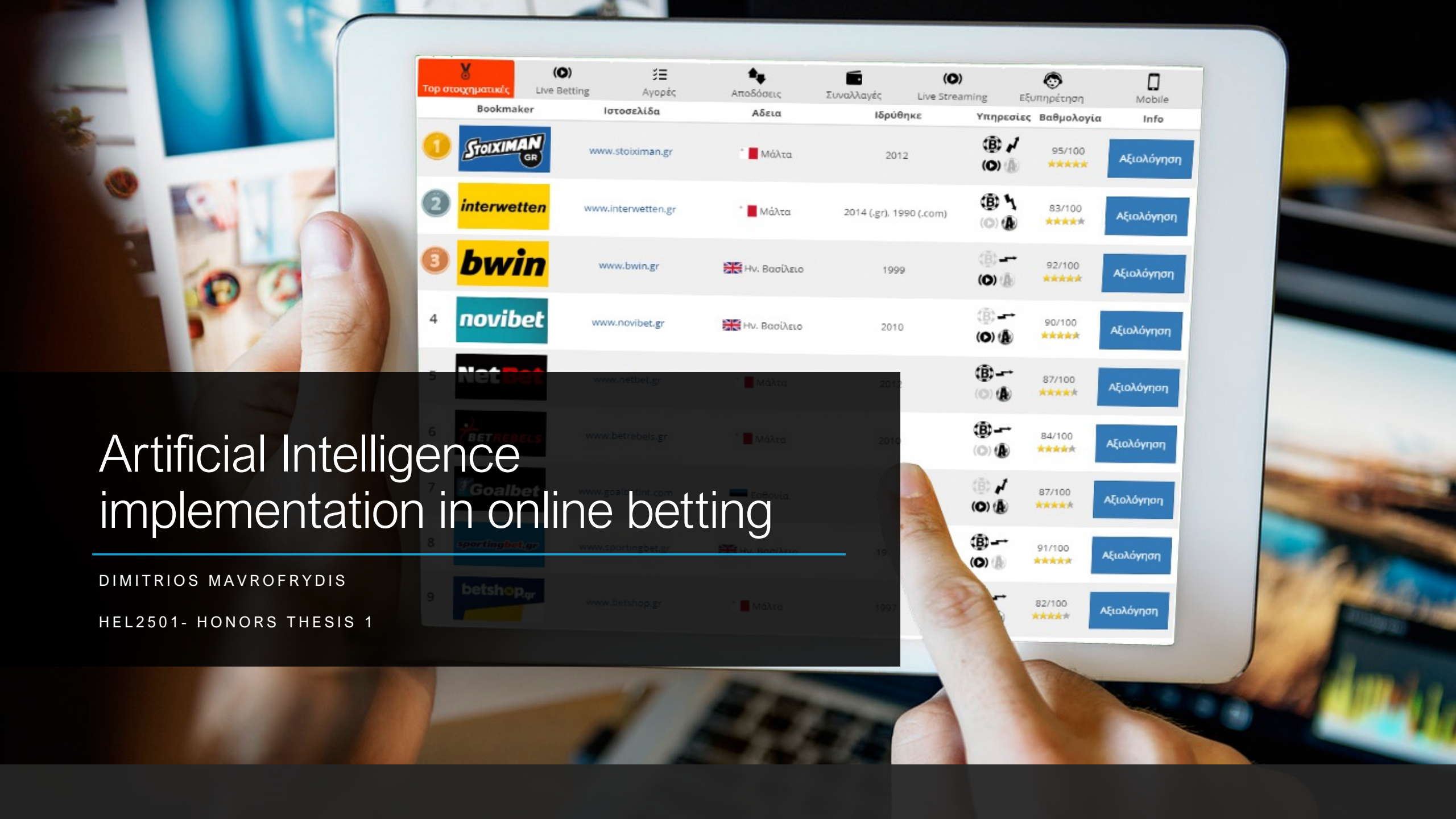

Artificial Intelligence implementation in online betting

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HEL2501- HONORS THESIS 1

Topic and thesis statement:

My Honors thesis will introduce a software package solution that will implement a machine learning algorithm capable of identifying potential mistakes and value errors in the betting odd generation systems, of many different online sports betting organizations.

Thesis Rational:

Why?

It is important for the users to understand the accuracy of the fixed prices and the values of the odds provided on the online platforms, in order to estimate the risk of placing a specific bet.

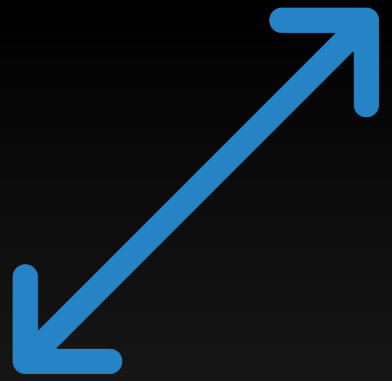
How does the user benefit from this program?

Such techniques of studying the odds of specific sporting events before placing a bet, does not only allow the player to get a better understanding of the risk they are about to take, but it also allows them to predict the success rate of the bet they are about to place.

What will the outcome be?

Developing and integrating an Artificial Intelligence agent into such online betting platforms, would allow it to act as a predictive system both for the final outcome of the game, as well as for the risk associated with a specific bet.

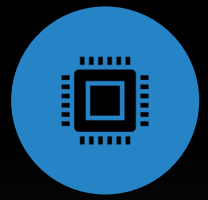
How?



This program will implement a variety of machine learning algorithms aiming to identify and inform the user for potential mistakes made by the online sports betting bookmakers, during the generation of the respective odds. This will allow the system to provide the users with the most profitable bets which have the highest success rate.

A detailed analysis will be performed in a matter of seconds, by retrieving statistical data and information from previous sporting events, in order to perform the appropriate calculations and provide the user with all the possible outcomes for a specific sporting game.

Outcomes and benefits:



Reverse-engineering such a complex algorithm, would benefit any betting company in avoiding future exploitation by similar systems and programs.

This research may also benefit the educational system, but also other scholars and researchers focusing on exploring the weaknesses of online systems and platforms using machine learning.

This paper can be very beneficial to researchers and scholars interested in the effects of integrating such machine learning algorithms in various online betting platforms.

The algorithm could be modified in order to be applied in other fields of science. For example, this algorithm could be used as: a medical data analysis and disease prediction algorithm, but also as a stock market prediction and analysis algorithm.

Thank you