

Deliverable 1: Area of Interest

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1. Financial Crisis

- Can we predict a financial crisis and the magnitude with available economical data, such as: interest rate, corporate and consumer debt, industrial production?
- Is there a financial model where companies can follow to maintain stability when a financial meltdown arrives?
- Which securities should outperform in a financial crisis?

2. Soccer

- Which team would be able to win a cup tournament? (European Soccer)
- Can we predict the probability of winning of a given team with the players' statistics?
- Does the number of money spent on purchasing players affect the winning rate of team?

3. Travelling

- Can we predict which month, weekday or hour will plane tickets be on sale?
- Do the regions around the world affect frequency of flight travelling?
- Do low cost airlines have the high probability of bankruptcy?

4. Housing

- Can we predict when the value of real estate will be the most attractive to buy given other indicator (interest rate, population growth)?
- Does renting make sense versus buying a house early?
- How much mortgage should you borrow given your income?

5. Climate change

- Has the change in climate (global warming) affect the living of marine species?
- How many years until we can remove the dependency on fossil fuel?
- How many trees do we have to plant to neutralize the carbon footprint of one person?