Moneylol

ICT Project: Development and Implementation

Master's Degree in Informatics Engineering

2022/2023

Universitat de Lleida
Escola Politècnica Superior

What is the project about?

❖ The project consists of creating a web application that can predict the winning team of a professional league of legends game.
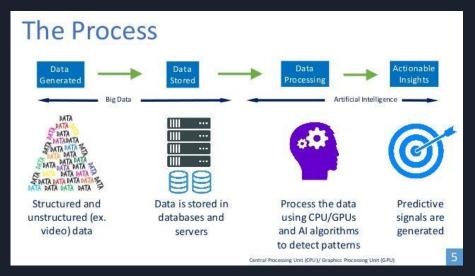
What is the project about?

❖ We want to predict the winner of the next matches thanks to the analysis of the previous matches that have been obtained as well as the individual statistics of each player
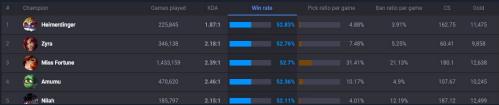
How will it be done?

❖ The project will be carried out using two areas of computer engineering:
  ➢ Data science.
  ➢ Machine learning.

The Process

Data Generated → Data Stored → Data Processing → Actionable Insights

Big Data — Artificial Intelligence

Structured and unstructured (ex. video) data

Data is stored in databases and servers

Process the data using CPU/GPUs and AI algorithms to detect patterns

Predictive signals are generated

Central Processing Unit (CPU)/ Graphics Processing Unit (GPU)

5

How will it be done?

❖ To obtain the final result, the data of three fields will be analyzed:
   ➢ The champions with their overall victory percentages.
   ➢ Players with the winning percentages with their champions.
   ➢ Team victory percentages.

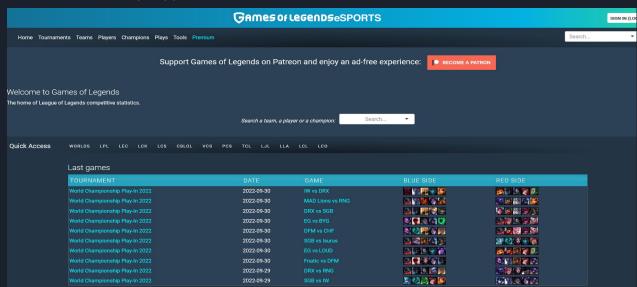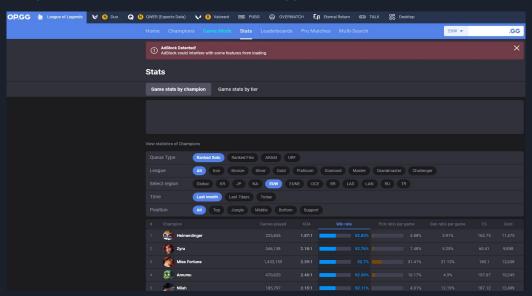| #	Champion	Games played	KDA	Win rate		Pick ratio per game	Ban ratio per game	CS	Gold
1	Heimerdinger	225,845	1.87:1		52.83%	4.88%	3.91%	162.75	11,475
2	Zyra	346,138	2.18:1		52.76%	7.48%	5.25%	60.41	9,858
3	Miss Fortune	1,433,159	2.39:1		52.7%	31.41%	21.13%	180.1	12,638
4	Amumu	470,620	2.46:1		52.36%	10.17%	4.9%	107.67	10,245
5	Nilah	185,797	2.15:1		52.11%	4.01%	12.19%	187.12	12,499

Where will we extract the data from?

❖ Through web scraping (python scripts) we will obtain daily and updated data from the website: https://gol.gg

Where will we extract the data from?

❖ We will also obtain relevant information from champions and players through web scraping of the website: https://www.op.gg/

Technologies

Budget

Team members		
Quantity	Position	Annual salary
1	Project Manager	40,000.00€
1	Software Engineering	30,000.00€
1	Data science	30,000.00€
1	Machine Learning Engineer	30,000.00€
Total cost		130,000.00€

Incomes

Thanks for your attention!