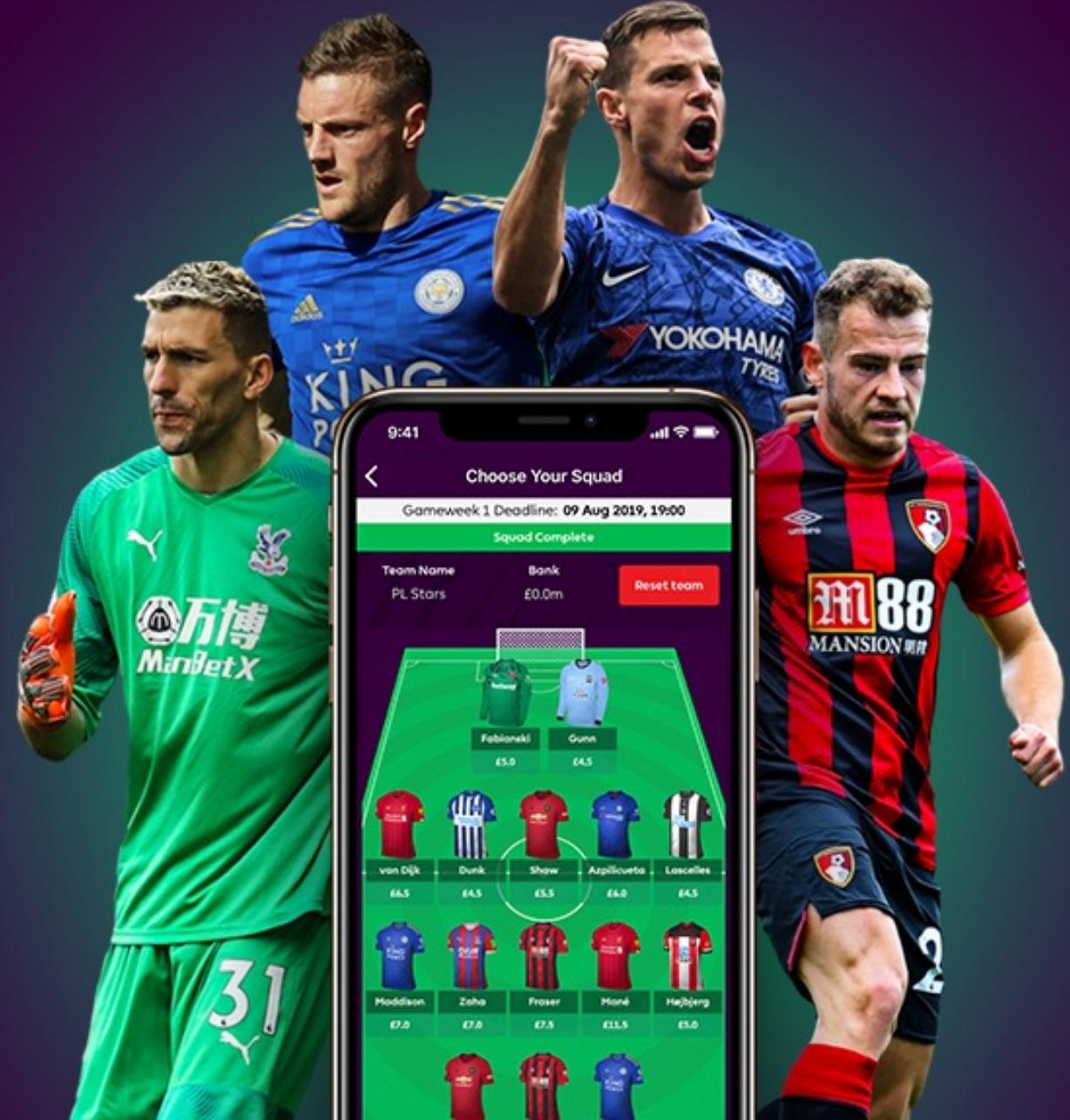


INTRODUCTION

- ▶ Fantasy Premier League
- ▶ Point Prediction



Data Acquisition

Fantasy Premier League API

1 season data

Over 700 players for 38 weeks

SAMPLE JSON
DATABASE



Storage

- ▶ Tabular format
- ▶ Different tables
- ▶ Connected with a common key

SQL

Modeling

- ▶ Get data
- ▶ Linear regression model
- ▶ Save for later



Production

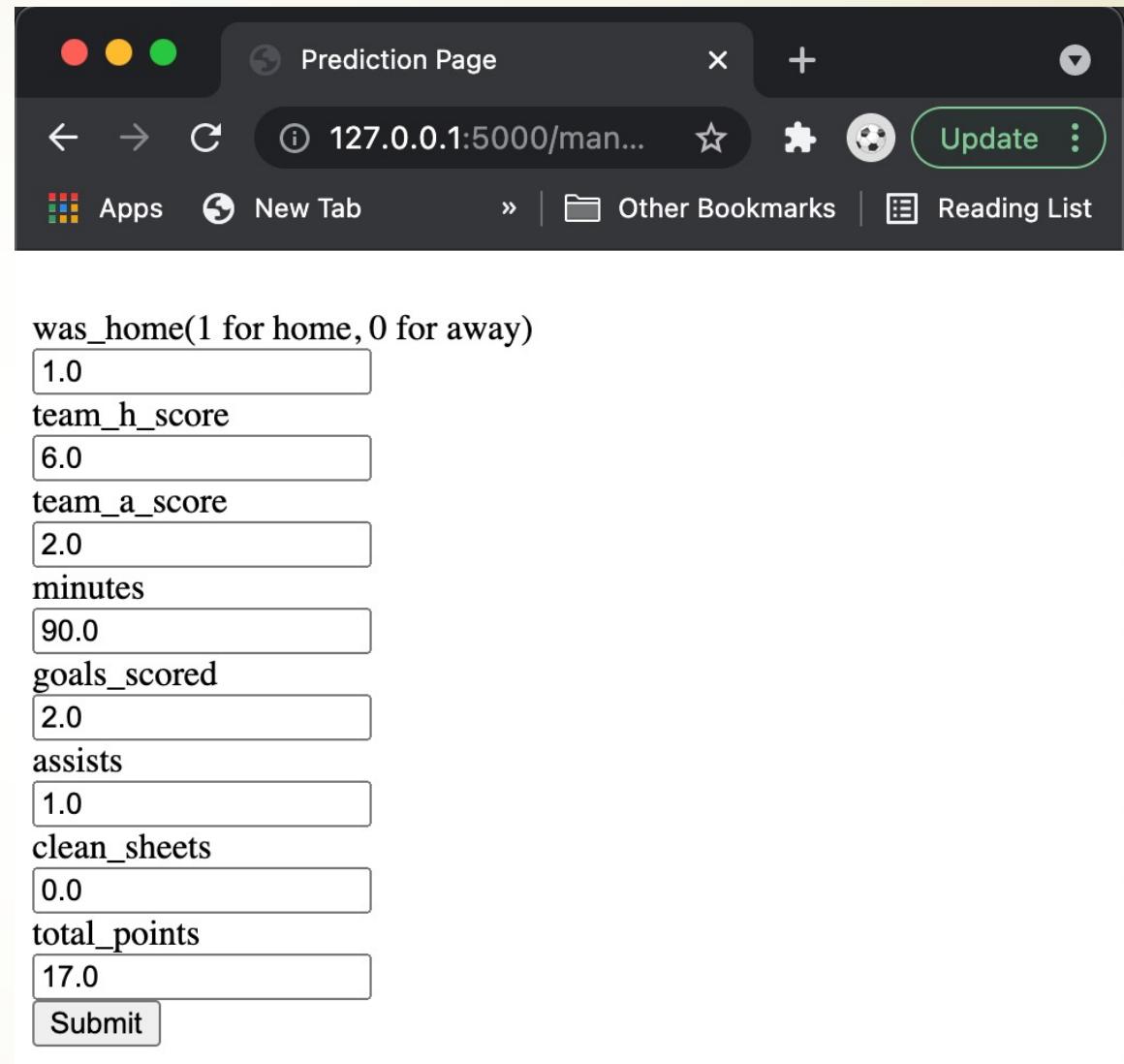
- ▶ Code cannot die in the notebook
- ▶ Let's make a web app
- ▶ Take input from user
- ▶ Interact with our model and database



Functionality 1

► /manual-predict

- Flask posts input to the model from user
- Model returns the prediction to flask for user.



The screenshot shows a web browser window titled "Prediction Page" with the URL "127.0.0.1:5000/manual-predict". The page contains a form with the following fields:

was_home(1 for home, 0 for away)	1.0
team_h_score	6.0
team_a_score	2.0
minutes	90.0
goals_scored	2.0
assists	1.0
clean_sheets	0.0
total_points	17.0

At the bottom of the form is a "Submit" button.

Functionality 2

- ▶ /Semi-Auto-predict
 - ▶ Dropdown menu for selection
 - ▶ User input is used to query the database for
 - ▶ Model receives data to make prediction

The screenshot shows a web browser window titled "Prediction Page" with the URL "127.0.0.1:5000/man...". The page contains a form with the following inputs:

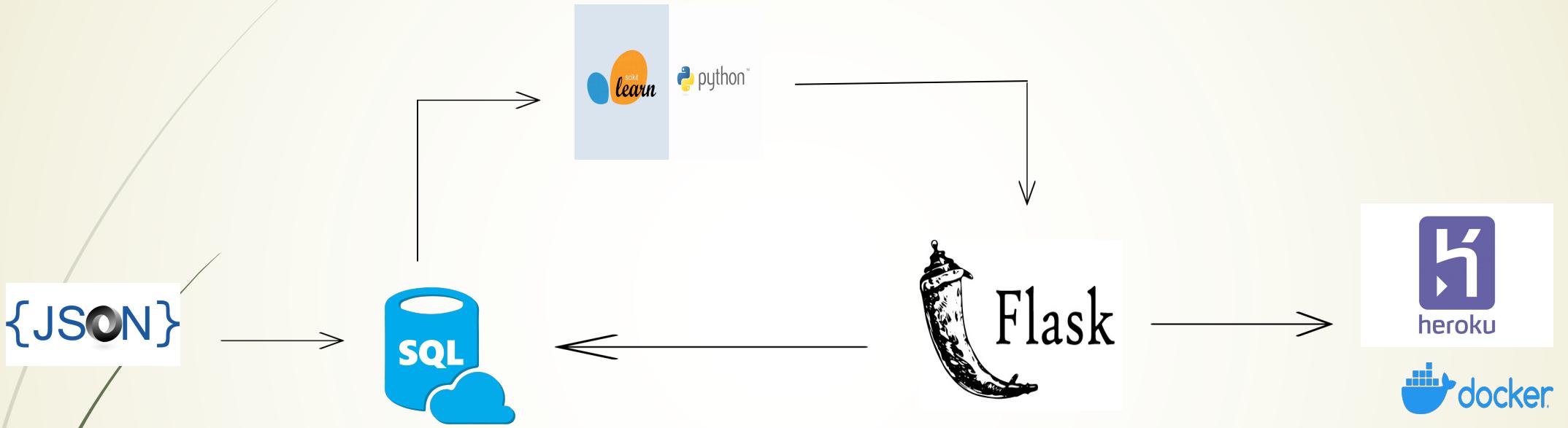
was_home(1 for home, 0 for away)	1.0
team_h_score	6.0
team_a_score	2.0
minutes	90.0
goals_scored	2.0
assists	1.0
clean_sheets	0.0
total_points	17.0

At the bottom of the form is a "Submit" button.

Deployment



Workflow





<https://fantasy-fpl-bernard.herokuapp.com/>



Future Work

- ▶ More Functionality
- ▶ Make prediction for top n players to score highest
- ▶ Better styling



Thank you,
People!!

Bernard Opoku

