Hood Hockey Analysis

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HoodHockey GitHub

Description

- Web application

- Dataset: DRIVE and Instat

- Visualizations

- Analysis

- Predictive analytics

Objectives

1 Performance & Metrics Analysis

2 Intuitive Data Visualization

3 Customizable Reporting & Insights

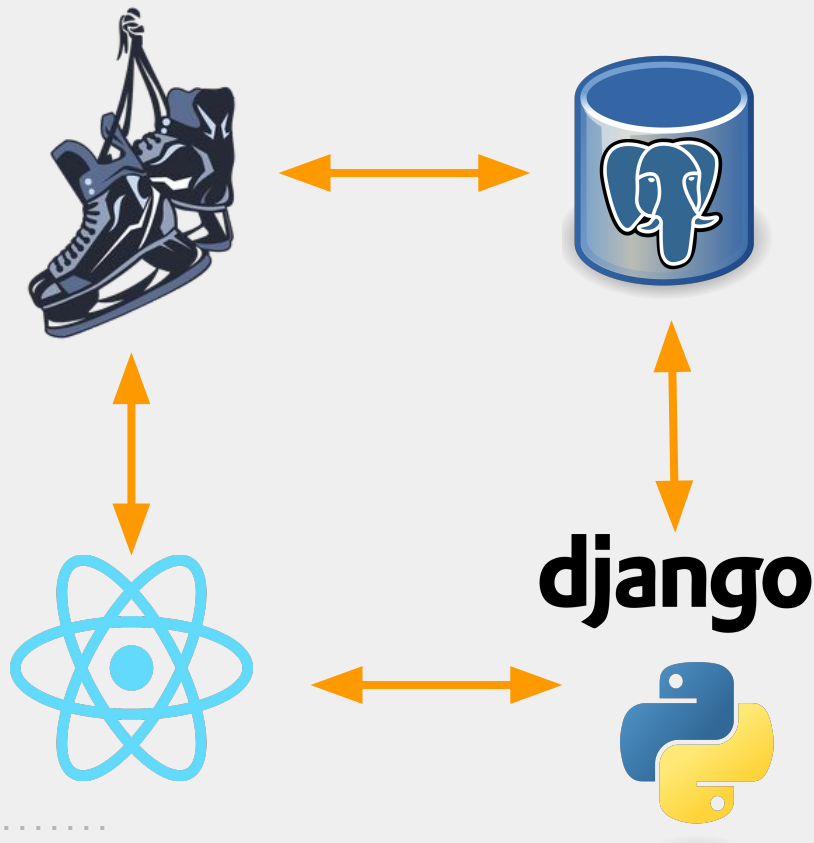**4** Real-time Data Ingestion & Storage

Background

- Wearables

- Player metrics: Drive

- Game performance: Instat

Technical

Upload, Clean, Connect, Analyze, Visualize

- Database: PostgreSQL
- Backend: Django
- Data Analysis: Python
- Frontend: React.js

Current Status

✔ Backend and Frontend connection

✔ Upload files

✔ Visualizations

✔ Merging data

STATUS

Skaters

Enter a File (.xlsx): Choose File | No file chosen   Upload File

Goalies

Enter a File (.xlsx): Choose File | No file chosen   Upload File

Games

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Lines

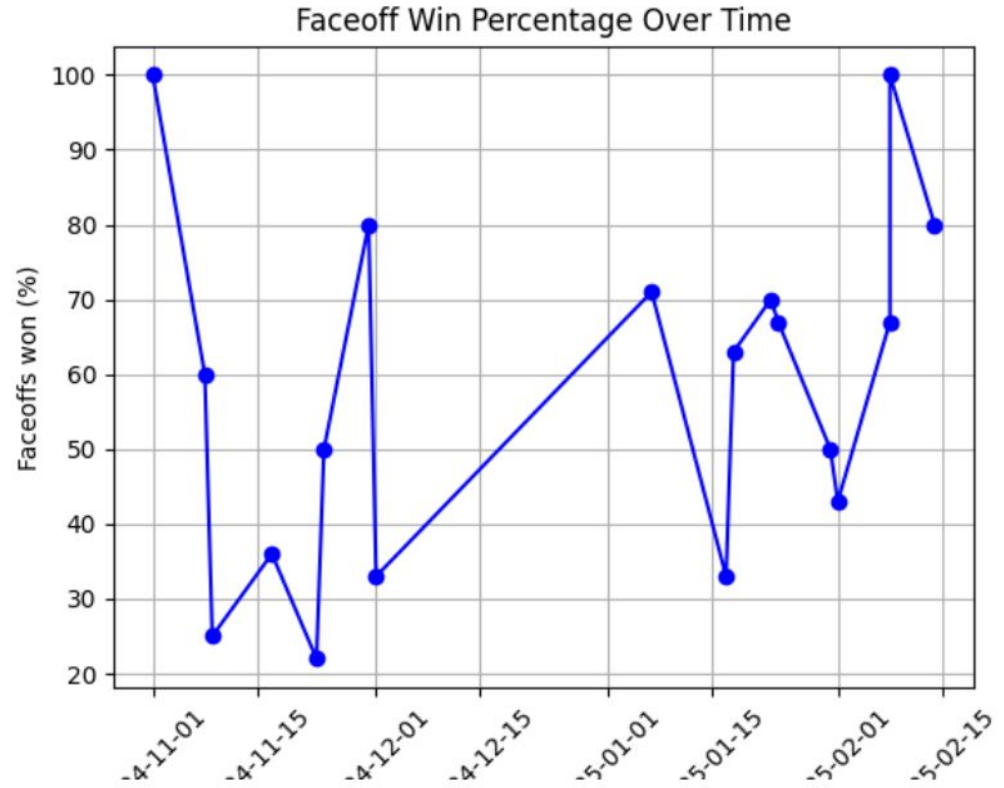Enter a File (.xlsx): Choose File | No file chosen   Upload File
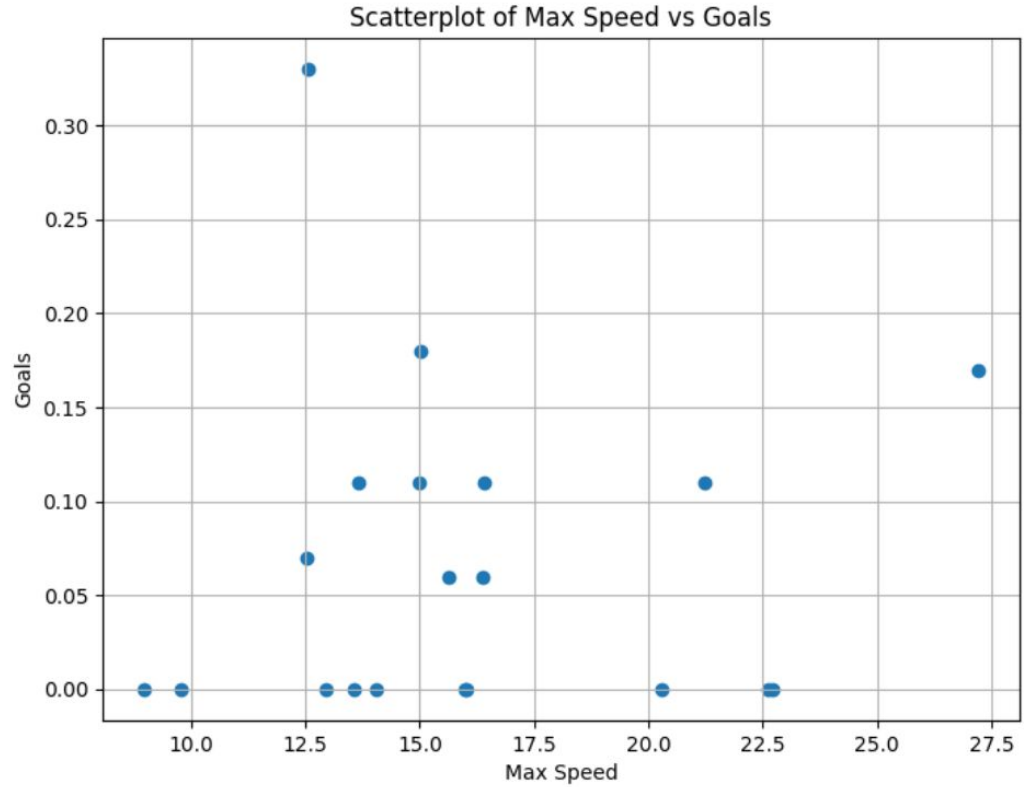
Drive

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STATUS

Faceoff Win Percentage Over Time

STATUS

Scatterplot of Max Speed vs Goals

Teamwork

Name	Tasks	Hours
Sam	Backend, front	~80hrs
Don	Data cleaning, Analysis, Visualization, Webapp Development	~40hrs
Sarah	Data cleaning, analyze data, documentation	~30hrs
Jeremias	Data Cleaning, Shot analysis, Best Player	~30hrs

Reflection

- Task management

- Watch games

- Tech steck difficulties

- Documentation

Next steps

Task	Process	Expected by
User Interface	Bootstrap & CSS Customizability	May
Analysis	Predictive & Current	Late April
Visualization	Player metrics & Performance progression	Late April

DEMO