Hood Hockey Analysis

Sam Lawrence sl26@hood.edu,
Don Ngo dtn1@hood.edu,
Sarah Setiawan sss13@hood.edu,
Jeremias Argueta ja16@hood.edu

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

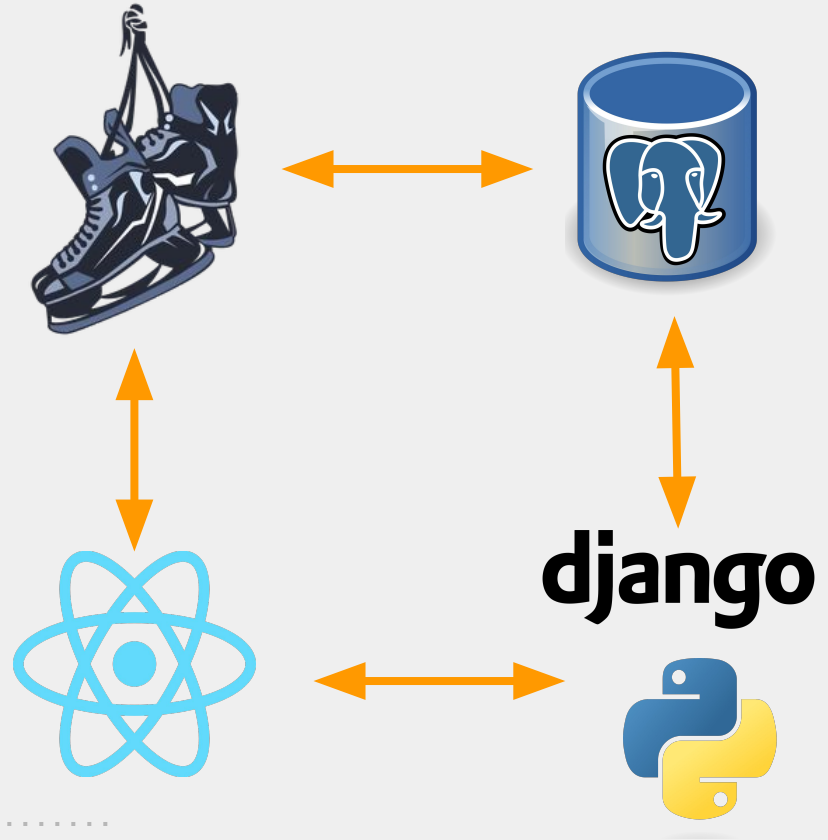**4** Real-time Data Ingestion & Storage

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

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

Lines

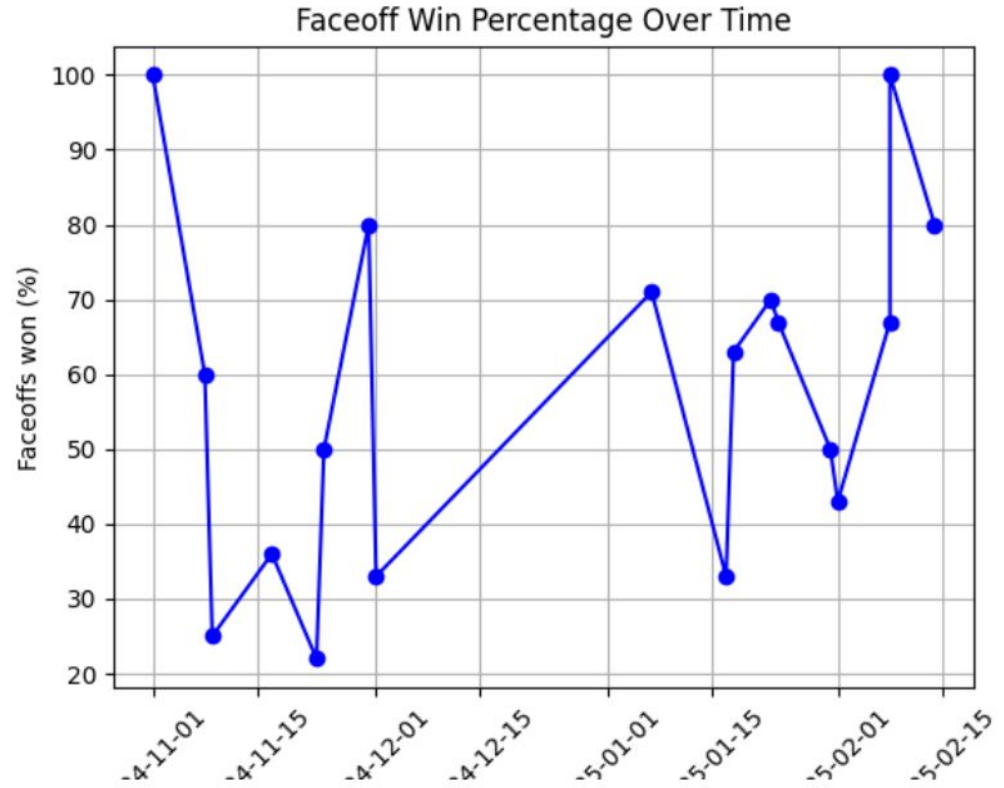Enter a File (.xlsx): [Choose File] No file chosen   [Upload File]

Drive

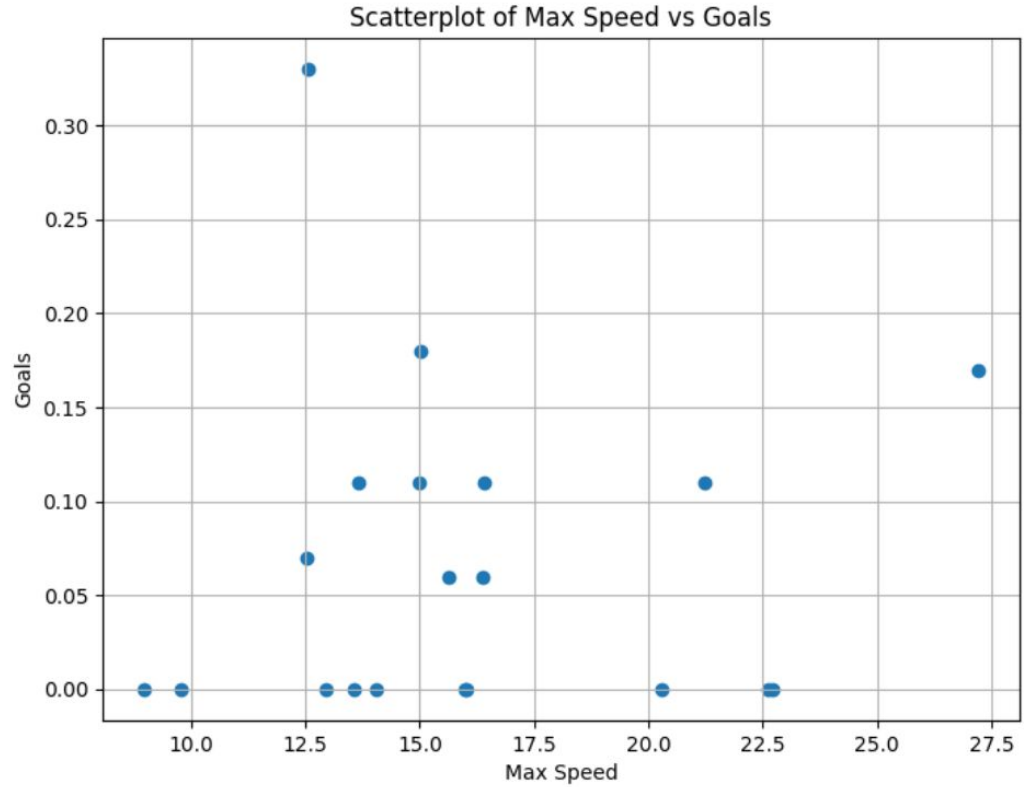Enter a File (.json): [Choose File] No file chosen   [Upload File]

STATUS

Faceoff Win Percentage Over Time

STATUS

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