

Weekly Analytics Report

25/06/2024

This is a project for organizing data collection, data processing, and machine learning tasks related to NBA player statistics, specifically to determine valuable players among the DETROIT PISTONS.

Table of Contents

- Goals
- Key Features
- Analytics
- Data Specifications
- Insights and Analysis

Goals

- Primary goal: Determine which players on the Detroit Pistons are valuable after 1 season of play.
- Secondary goals:
 - Understand the data and perform analytics on its specifications and data insights.
 - Perform basic statistical modeling on the data.
 - Use neural nets like MLP, ARIMA, and LSTM to predict what to do with the players.

Key Features

- Collect and analyze data on Detroit Pistons players.
- Perform statistical modeling and analysis on the data.
- Use neural networks like MLP, ARIMA, and LSTM for player predictions.
- Generate insights and analysis based on the data.

Analytics

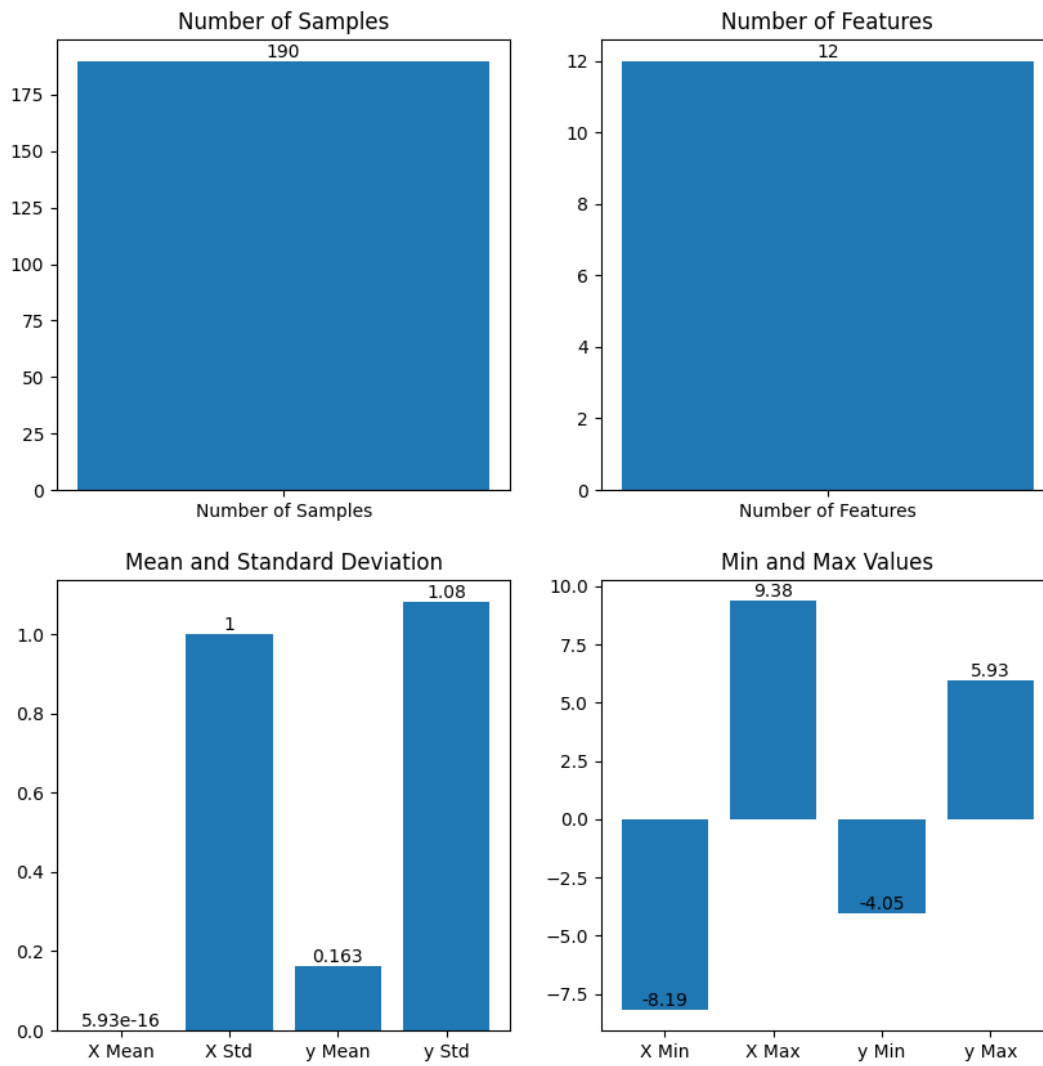
Data Specifications:

- Original DataFrame: Entries=13210, Unique Players=2377
- Filtered DataFrame: Entries=950, Unique Players=190

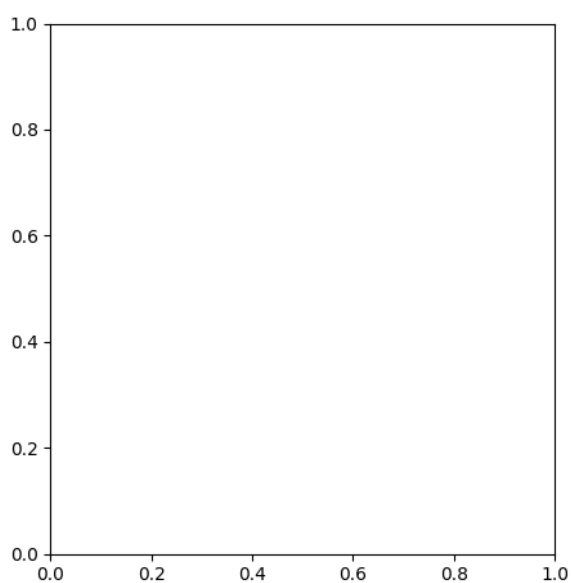
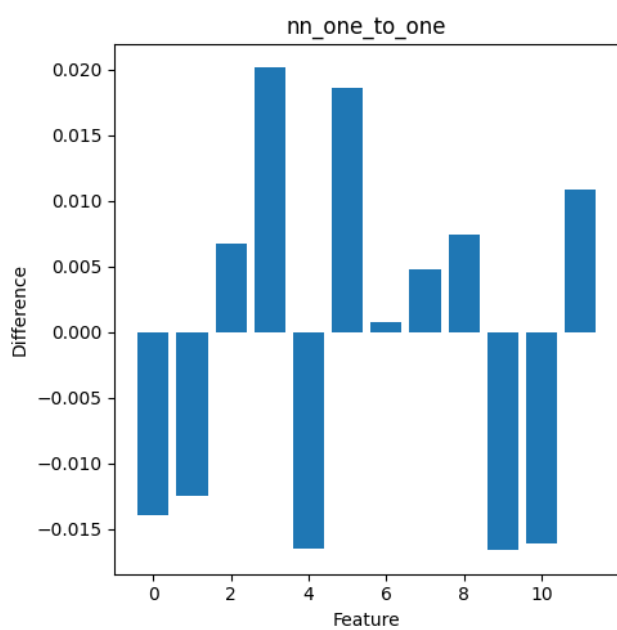
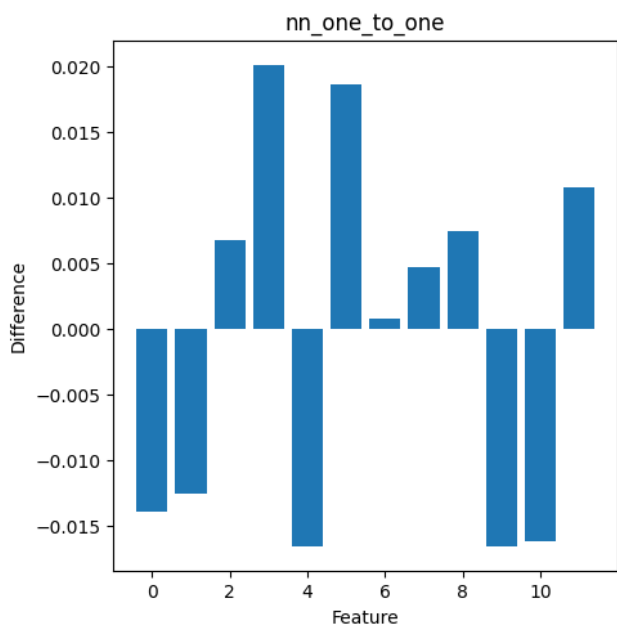
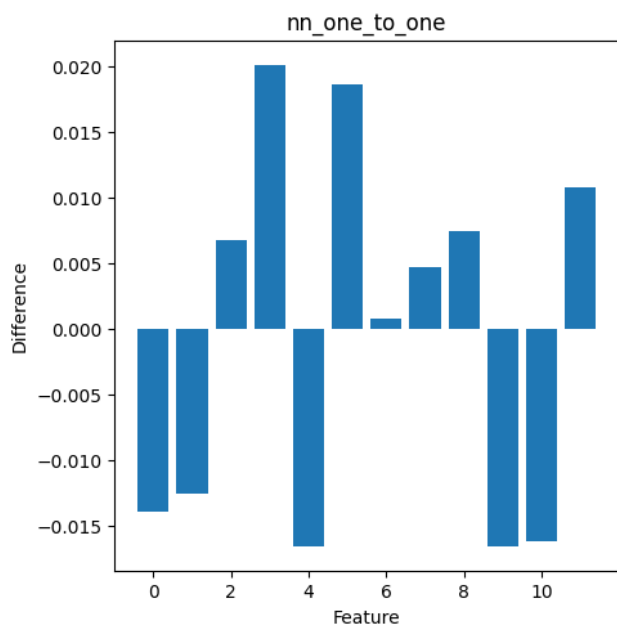
Insights and Analysis:

- [Insight 1]
- [Insight 2]
- [Insight 3]

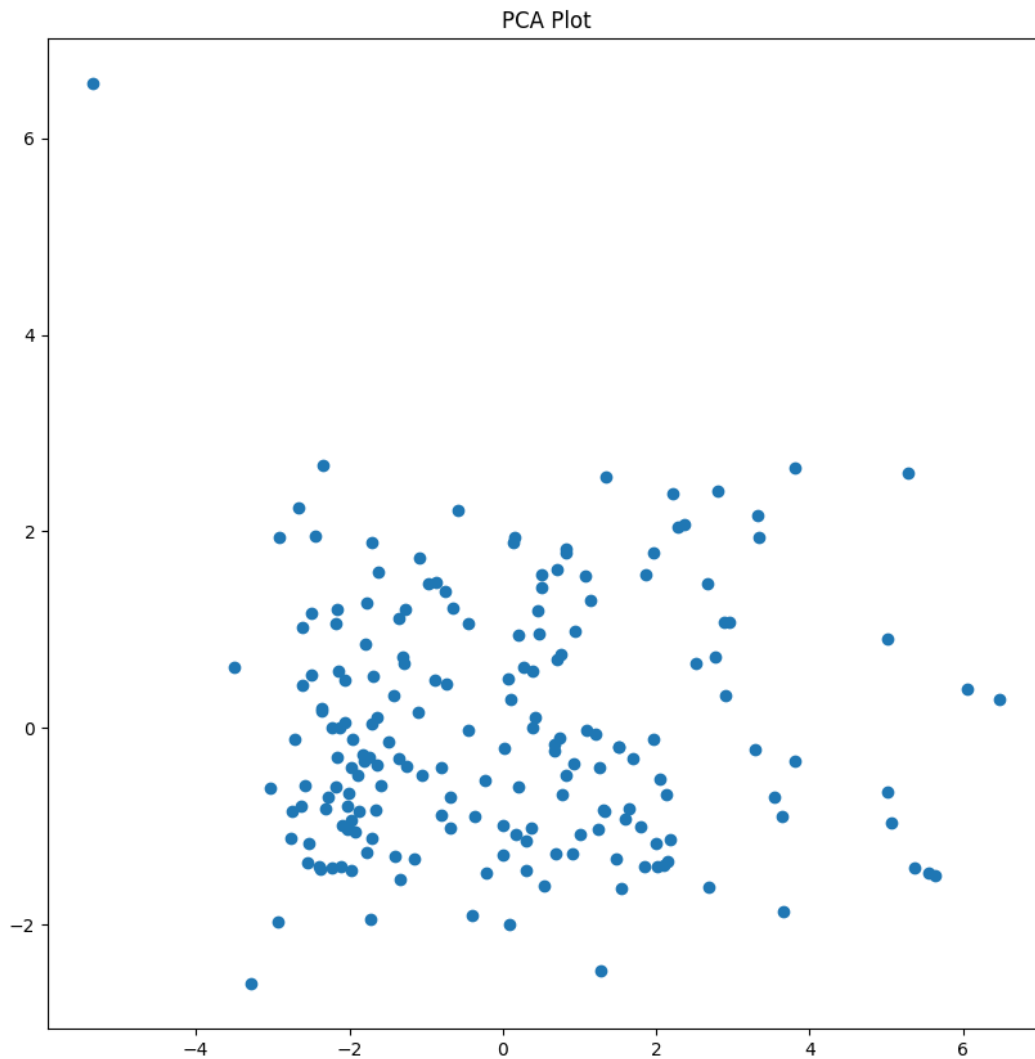
1. The graph below demonstrates the basic analytics of the NBA dataset:



2. The visualisations below show model prediction comparisons:



3. The graphs below show further analysis via PCA, showing dataset sample relationships.



Productivity

The table below shows the last 7 days of git commits:

	Message	Date
0	0.3.9-2024-25-06: Started report automation pr...	2024-06-25
1	0.3.8-2024-23-06: Updated use_models.py to wo...	2024-06-24
2	0.3.7-2024-22-06: Updated nn to include many-t...	2024-06-22
3	0.3.6-2024-21-06: Updated dataset and improved...	2024-06-21
4	0.3.5-2024-19-06: New schedule in readme and u...	2024-06-20