

Deployment Guide

Link to Project: [Ahmad Jawaad Shah - Project](#)

1. Instructions for Deployment

The project is developed in Python 3.9 using the PyCharm IDE.

1.1 Libraries

Please ensure that all of the necessary libraries have been installed.

These include:

- Argparse
- Numpy
- Pandas
- Seaborn
- Matplotlib
- Scikit-Learn

1.2 Execution

The project can be executed via the command line. To execute the Outstanding player detection model with default parameters, use

- `python players.py`

To execute the Outstanding player detection model, with a **different** set of parameters, use

- `python players.py --start 1997`

To execute the match prediction model with default parameters, use

- `python predictor.py`

To execute the match prediction model with **different** parameters, use

- `python predictor.py --start 1997`

The **--start** parameter can be any value in the range [1946, 2004]. For the outstanding player detection, for each season from start, you will receive predictions for the top 10 players. For the match prediction, the start value will include more data for training when training the ADW model. For the outstanding player model, the default start is 2000. For the match prediction model, the default start is 1980.