

Objective:

To create a report on players performance year-wise and compare. To find Key metrics and factors. Also, to show meaningful relationship between attributes.

Table Description

Sr. No.	Column Name	Sr. No.	Column Name
1.	Player	10.	Vertical (No step)
2.	Year	11.	Vertical (No Step Reach)
3.	Draft Pick	12.	Weight
4.	Height (No Shoes)	13.	Body Fat
5.	Height (with Shoes)	14.	Hand (Length)
6.	Wingspan	15.	Hand (Width)
7.	Standing Reach	16.	Bench
8.	Vertical (Max)	17.	Agility
9.	Vertical (Max reach)	18.	Sprint

Tools Used









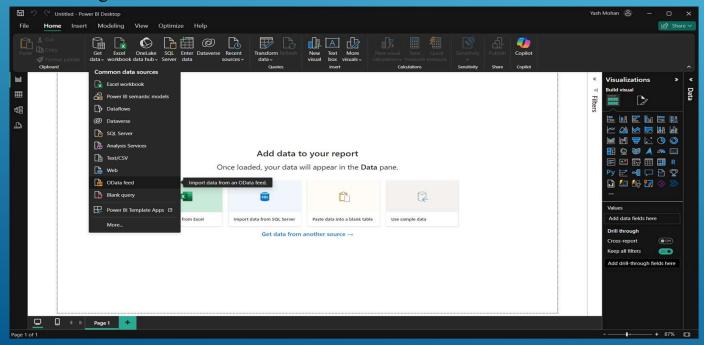
- Programming Language Used: Python
- Python Libraries Used: Numpy, pandas
- Business Intelligence Tools: Excel, Power BI

Data Imports and Data Cleaning

- Import the given Excel file in Jupyter Notebook for cleaning.
- Data Cleaning is crucial as the dataset has impurities such as missing values or incorrect data types.
- We used Pandas library in Python to get rid of missing values and make dataset ready for creating visual reports.

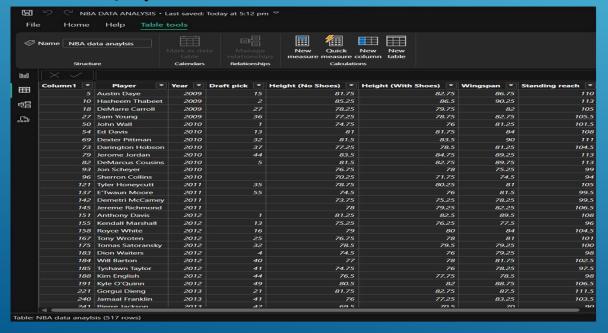
Data Importing in Power BI

- In Power BI we have options to connect to our dataset through various options such as SQL servers, MySQL, Excel or CSV files.
- We have our clean data in the CSV file. Now we will import in Power BI with import data option and start working with it.



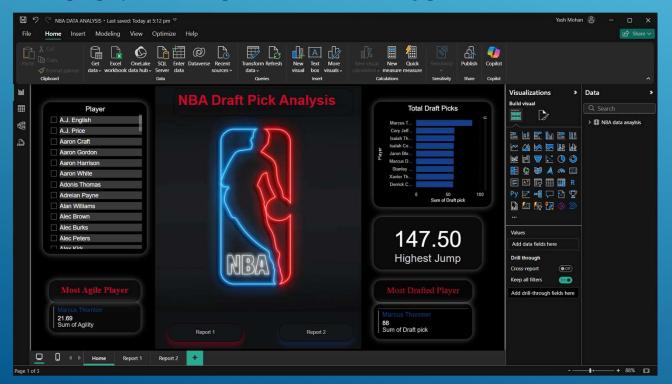
Data Transformation in Power BI

- Once the data is imported in Power BI, we do transform data i.e. using Power Query Editor to perform certain operation on to the data.
- Ensuring correct data types, creating custom or conditional columns are some fundamental task performed in Power Query.



Building Visuals in Power BI

- A report is created in Power BI with various charts depicting Draft Picks by Player and Agility and Sprint by Player which can be seen by using slicer of particular Year and Player.
- Also, I created Player's slicer to see data cards which shows key factors with respect to players.
- Top 5 players with respect to Draft Picks, wingspan and vertical max reach using year slicer.



Deployment in Power BI

• In Power BI, we can directly publish the report online to our workstation. If we do not have the work email then we can save the file in '.pbix' version. This helps another viewer see our work and understand the story or insights we are communicating.

