NBA Draft Pick Analysis Report

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.

Data Description

The dataset consist of following columns:

Sr. No.	Column Name	Sr. No.	Column Name
1	Player: Player Name	10	Vertical (No Step): No step vertical of player
2	Year: Which Year Player Picked	11	Vertical (No Step Reach) : No step vertical reach of player
3	Draft_Pick : How many times player pick	12	Weight : Player's weight
4	Height (No Shoes) : Player height without shoes	13	Body Fat : Player body fat
5	Height (with Shoes) : Player height with shoes	14	Hand (Length): Measure Player Hand Length
6	Wingspan : Players arm length from fingertip to fingertip	15	Hand (Width): Measure Player Hand Width
7	Standing Reach: Player standing reach	16	Bench:
8	Vertical (Max) : Measure of player's vertical jump	17	Agility: Agility of Player
9	Vertical (Max reach): Player player's vertical max jump	18	Sprint : Sprint of Player

Tools Used









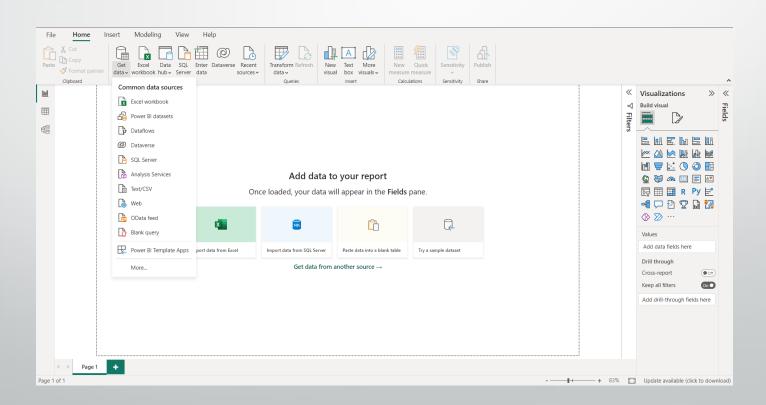
- Programming Language used: Python
- Python Libraries used: Numpy, Pandas
- Business Intelligence Tools: Excel, Power BI

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.
- I used Pandas library in Python to impute or remove missing values and make dataset ready for creating visual reports.

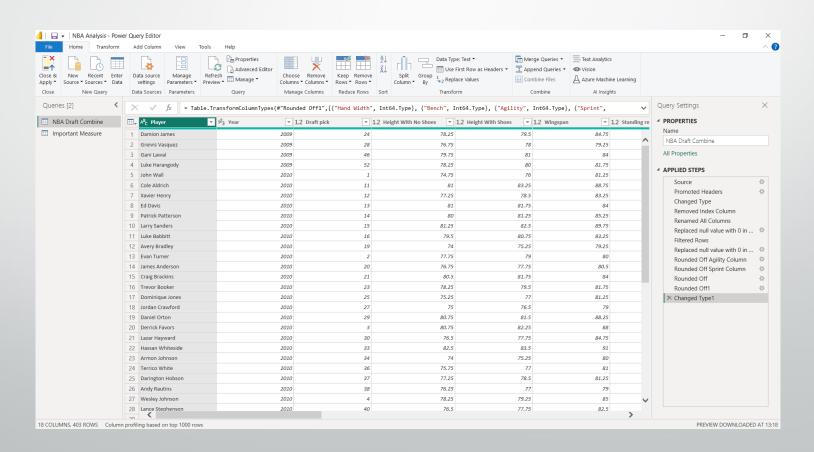
Data Importing in Power BI

- ➤ In Power BI, we have options to connect to our dataset via various options such as SQL Server, MySQL, Excel or CSV files.
- > We have our clean data in CSV file. 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.

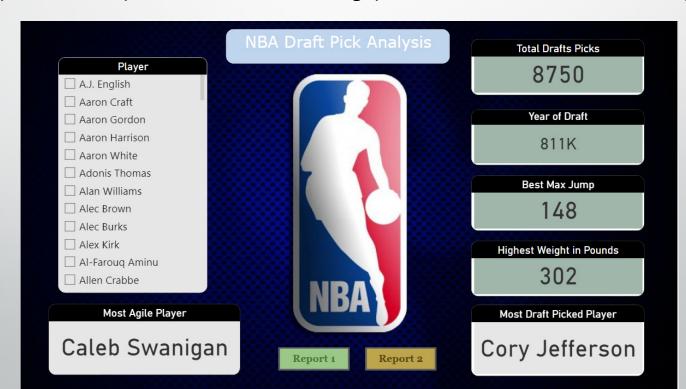


Building Visuals in Power BI

- A report is created in Power BI with various charts depicting Draft Picks by Player and Agility & 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.

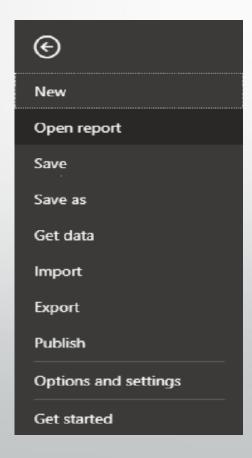
Top 5 Players with respect to Draft Picks, wingspan and vertical max reach using year

slicer.



Deployment in Power BI

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



Thank You!