



# College Basketball Data Starter Pack Notebooks Guide

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This guide summarizes the purpose and content of each Jupyter notebook included in the College Basketball Data Starter Pack. These notebooks are designed to help users explore, visualize, and build with the provided data.

## **00\_data\_dictionary.ipynb**

Maps every CSV in the starter pack, explaining columns, relationships, and sample records.

## **01\_intro\_to\_data.ipynb**

Guides users through selecting a season, loading core tables, and building quick exploratory views.

## **02\_build\_simple\_rankings.ipynb**

Walks through assembling a customizable power ranking from tempo-free team metrics and adjustable weights.

## **03\_team\_stats\_explorer.ipynb**

Provides interactive cuts of team-season totals, conference comparisons, and momentum charts for rapid exploration.

## **04\_tempo\_free\_team\_metrics.ipynb**

Contrasts pace and efficiency by exploring tempo-free ratings, Four Factors benchmarks, and tempo tiers.

## **05\_team\_vs\_conference\_averages.ipynb**

Highlights how each team stacks against conference averages across tempo-free metrics with visuals that surface over- and under-performers.

## **06\_opponent\_adjusted\_ratings.ipynb**

Builds Simple Rating System and strength-of-schedule adjustments to reveal schedule-adjusted net ratings.

## **07\_data\_dictionary.ipynb**

Calculates cosine-based similarity scores to find stylistic twins for any program using tempo-free feature vectors.

## **08\_metric\_distribution\_explorer.ipynb**

Lets you compare distribution shapes and outliers for any tempo-free stat across Division I teams or chosen conferences.

## **09\_player\_rate\_stats.ipynb**

Surfaces per-possession player leaderboards, usage tiers, and role archetypes with rate-based metrics.

## **10\_player\_shot\_profile\_analysis.ipynb**

Marries shot tracking with rate stats to evaluate scoring mix, assisted rates, and efficiency splits for players.

## **11\_player\_comparison\_dashboard.ipynb**

Packages multiple charts into a reusable dashboard for side-by-side player role and efficiency comparisons.

## **12\_matchup\_explorer.ipynb**

Combines season baselines and recent form to scout upcoming matchups with tempo-free team and opponent views.

## 13\_efficiency\_dashboards.ipynb

Delivers polished efficiency dashboards that benchmark offense, defense, pace, and momentum for spotlight teams.

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**Thank you for supporting this project on Gumroad!** Your support helps keep this data available and growing. If you have questions, feedback, or ideas, hop into the Discord or join one of our regularly scheduled Office Hours sessions.

For updates, new tools, or additional data (such as play and lineup data), visit [collegebasketballdata.com](https://collegebasketballdata.com).