



Pivot Analysis Data Services

Prospect Data and API Overview

The **Pivot Analysis Prospect Data Services** are built with a single goal in-mind, to provide the most robust and comprehensive data feed and API in the industry. The offering available today is focused on the primary source of all NBA talent, the NCAA, though we also cover the EuroLeague and EuroCup.

Historical Data Access

NCAA Division I coverage since 2009

EuroLeague

EuroCup

In-Season Support

Every game uploaded within 24 hours

Our play-by-play focused collection and processing with lineup enrichment as well as configurable Analytics API has enabled us to generate the richest commercial dataset ever in the college basketball space.

We **normalize, process, enrich, and aggregate** play-by-play and lineup data so you don't have to

- Normalized play-by-play and event categorization
 - Multi-faceted approach to unique player detection and attribution utilizing part-of-speech analysis
 - Massive alias dictionary and event mapping lookup
- Auto error detection/cleaning/quality control
 - Full line-up enrichment + individual player tracking(all with trackable Ids)
 - Shot type attribution and assist relationship creation
- Single Player On-Court + Standard Statistics tracking
 - Standard + Advanced team/player/lineup metrics by season, team, game, and shift
 - Full enriched event feed across full dataset
- Customizable API configuration
 - Standardized procedure for the addition of new leagues/data sets
 - Multiple data delivery options

To accompany our live in-season support, we can also offer access to our unrivaled historical dataset. Thousands of hours of data cleaning have yielded us access to every game and play in Division 1, since 2009. All of this data is lineup-enriched and is available via the API.





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The **Pivot Analysis Prospect Data Services** offer a **fact-based** understanding of how teams and players **truly perform**. The Pivot Advanced Stats API supports multiple pre-calculated aggregations and analytics and can be configured to support more.

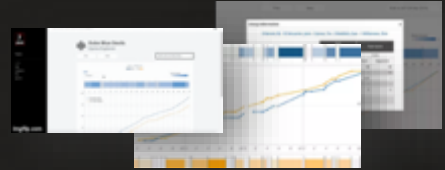
Customers will not only be able to access the data via our Analytics API but will also be able to easily analyze and review metrics via the front-end data analysis tools. Pivot Analysis has built a number of visualizations powered by our API and these tools serve as an easy way of reviewing our data holding as well as leveraging some of the analytics we already capture.

Purpose-built API pre-configured to support the most popular use case and easily adjusted to support new ones

1

Play-by-Play Productivity

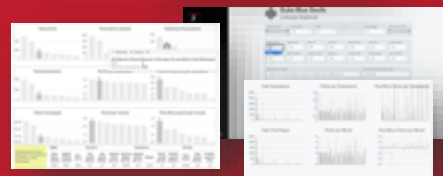
Game Review – Event Feed



2

Lineup Insights

Configurable on-court metrics



3

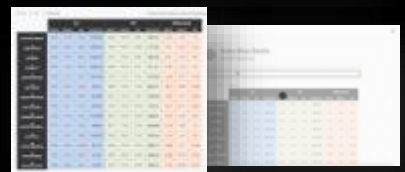
Player Impact Metrics

Single Player + Player Combinations



4

Team and Player Advanced Statistics



Available Today: *NCAA(M+W), EuroLeague, EuroCup*

Coming Soon: *Total Global Domination*





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The **Pivot Analysis Prospect Data Model** is designed to be a flexible and performant method of processing, enriching, storing, and analyzing play-by-play data across leagues and data providers. We currently collect and normalize 10 different data models on a regular basis. This approach has ensured that our ability to add new leagues is as easy as possible. Additionally, our triage infrastructure is designed to handle all the various problems that non-NBA leagues present. We currently have automated and human-enabled technological methods of fixing name errors, rosters errors, play order errors, substitution errors, and assist errors to name a few. We also capture and retain all deltas between box score stats and PBP generated stats.

Normalized Event Snippet

```
HTTP 200 OK
Allow: GET, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
  {
    "id": "4b73fc0f-89c1-4bee-98b5-86dcffdb0879",
    "assisted_by": null,
    "game_time": "19:43",
    "period": 1,
    "home_score": 0,
    "visitor_score": 0,
    "review": false,
    "is_deleted": false,
    "game_time_lip": 1183.0,
    "game_time_eig": 17.0,
    "game_time_lig": 2383.0,
    "margin": 0,
    "action": "shot_three_miss",
    "notes": "MURPHY,ERIK missed Three Point Jumper",
    "collected_order": 0,
    "is_garbage": false,
    "is_clutch": false,
    "is_normal": true,
    "is_final_two": false,
    "is_starting": true,
    "is_overtime": false,
    "is_atr": false,
    "is_assisted": false,
    "game": 44336,
    "actor": 55295,
    "actor_roster": 10467,
    "lineup": 447657,
    "opp_lineup": 447692
  }
]
```

Collection Dashboard (as of August 2021)

PORTFOLIOS 37,324	PROJECTS 501,015	JOB 209,810	TEAMS 1,603	PLAYERS 138,316	EVENTS 62,082,760
GAMES 149,252	ROSTERS 18,443	LOCATIONS 3,171,418	LINEUPS 1,397,976	SHIFTS 5,275,822	SHOTCHARTS 215,904

