# High Level Design (HLD)

## NBA DRAFT COMBINES MEASUREMENT

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Chet Mani Singh

1 .High Level Design (HLD)

## Document Version Control

| Date Issued | Version | Description | Author |
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| 16th November 2022 | 1.0 | First Version of Complete HLD | Chet Mani Singh |
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## Contents



## Abstract

The National Basketball Association, NBA, is a professional basketball league comprised of 30 teams across North America featuring the best basketball players in the world.

Today, the NBA is the most innovative league in sports, helping drive the game's growth around the globe. We're pioneers in using technology to deliver content to fans over all forms of media, and a leader in social responsibility and community development.

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# 1. Introduction

## 1.1 Why this High-Level Design Document?

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions before coding and can be used as a reference manual for how the modules interact at a high level.

### The HLD will:

- Present all of the design aspects and define them in detail
- Describe the user interface is implemented
- Describe the hardware and software interfaces
- Describe the performance requirements
- Include design features and the architecture of the project
- List and describe the non-functional attributes like:

  - Security
  - Reliability
  - Maintainability
  - Reusability
  - Application compatibility
  - Resource utilization
  - Serviceability

### 1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

# 2 General Description

## 2.1 Product Perspective & Problem Statement

The National Basketball Association was founded at the Commodore Hotel in New York. Maurice Podoloff was the league's first president, a title later changed to the commissioner. Eleven teams were part of that league, originally called the Basketball Association of America. Podoloff's name is now emblazoned on the NBA MVP trophy.
The National Basketball Association, NBA, is a professional basketball league comprised of 30 teams across North America featuring the world's best basketball players.

In this project, we will see various aspects and qualities of NBA players (i.e. Body Fat, Weight, Height, etc, and we will see what trends and relationships their qualities are following.

We will visualize their qualities using visualization tools like Plotly and matplotlib and tableau.

## 2.2 Tools used

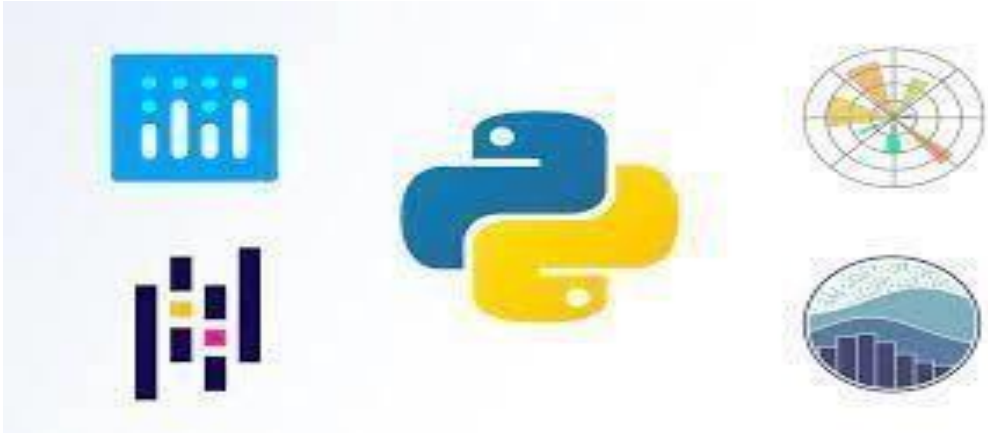




iNeuron

plotly

seaborn



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# 3 Design Details

## 3.1 Functional Architecture

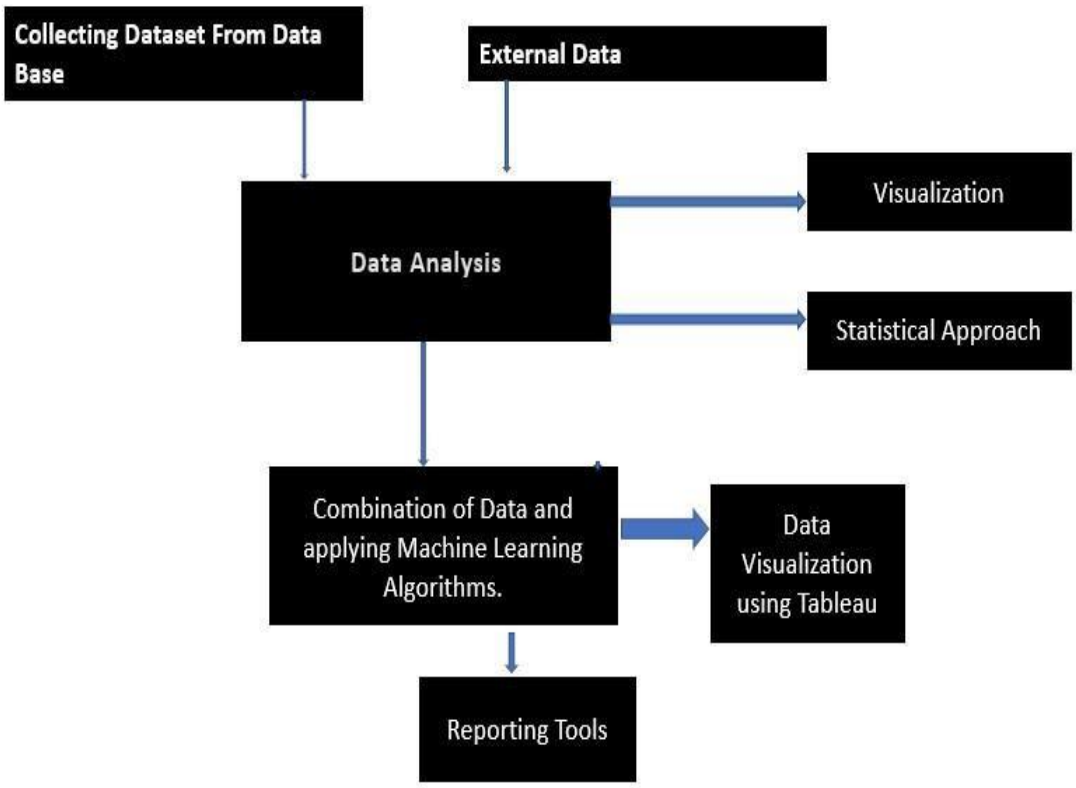

Figure 1: Functional Architecture of Business Intelligence

## 4 KPIs

Dashboards will be implemented to display and indicate certain KPIs and relevant indicators for the project result.


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As and when the system starts to capture the historical/periodic data for a user, the dashboards will be included to display charts over time with progress on various indicators or factors.

## 4.1 KPIs (Key Performance Indicators)

Key indicators displaying a summary of the NBA Dataset and its relationship with different metrics

1. Impact of Height on Wingspan across the player.

2. Impact of weight on height across the player

3. Impact of Hand (Length) on Wingspan

4. Impact of Weight on Body Fat

5. Impact of Body Fat on Sprint

6. Influence of height parameter on sprint.

7. Influence of height parameter on vertical (max reach)

8. Influence of height (No shoes) parameter on wingspan

9. Influence of Body fat parameter on agility

10. Influence of Height (No Shoes) Parameter on Sprint.

## 5 Final Section

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Prioritizing data and analytics couldn't come at a better time. No matter what size, your company is already collecting data and most likely analyzing just a portion of it to solve business problems, gain competitive advantages, and drive enterprise transformation. With the explosive growth of enterprise data, database technologies, and the high demand for analytical skills, today's most effective IT organizations have shifted their focus to enabling self-services by using and operating Plotly at scale, as well as organizing, orchestrating, and unifying disparate sources of data for business users and experts alike to author and consume content.

Tableau helps people see and understand data. Our visual analytics platform is transforming the way people use data to solve problems. See why organizations of all sizes trust Tableau to help them be more data-driven.