

# High Level Design (HLD)

# **Analyzing Google App Store**

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Rishav Sinha



## **Document Version Control**

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31 <sup>th</sup> August 2022	1.0	First Version of Complete HLD	Rishav Sinha



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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 prior to 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 being implemented
- Describe the hardware and software interfaces
- Describe the performance requirements
- Include design features and the architecture of the project
- describe the non-functional attributes like:
  - Security
  - Reliability
  - Maintainability
  - Portability
  - 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 nontechnical to mildly-technical terms which should be understandable to the administrators of the system.



## 2 General Description

#### **Problem Statement** 2.1

Housing prices are an important reflection of the economy, and housing price ranges are of great interest for both buyers and sellers. In this project, house prices will be predicted given explanatory variables that cover many aspects of residential houses.

The objective of the project is to perform data visualization techniques to understand the insight of the data. This project aims apply various Business Intelligence tools such as Tableau or Power BI to get a visual understanding of the data.

#### 2.2 Tools used

Business Intelligence tools and libraries works such as NumPy, Pandas, Excel, R, Tableau, Power BI are used to build the whole framework.













## 3 Design Details

## 3.1 Functional Architecture

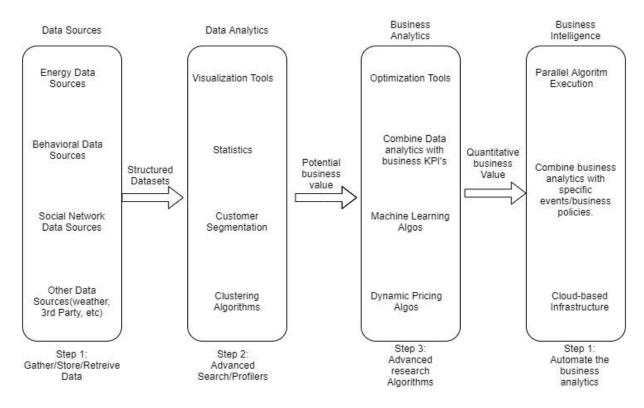
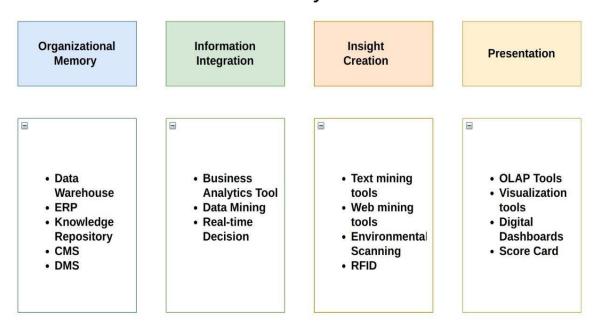


Figure 1: Functional Architecture of Business Intelligence

## How BI Really Works





### 3.2 Optimization

Your data strategy drives performance

- Minimize the number of fields
- Minimize the number of records
- Optimize extracts to speed up future queries by materializing calculations, removing columns and the use of accelerated views

#### Reduce the marks (data points) in your view

- Practice guided analytics. There's no need to fit everything you
  plan to show in a single view. Compile related views and connect
  them with action filters to travel from overview to highly-granular
  views at the speed of thought.
- Remove unneeded dimensions from the detail shelf.
- · Explore. Try displaying your data in different types of views.

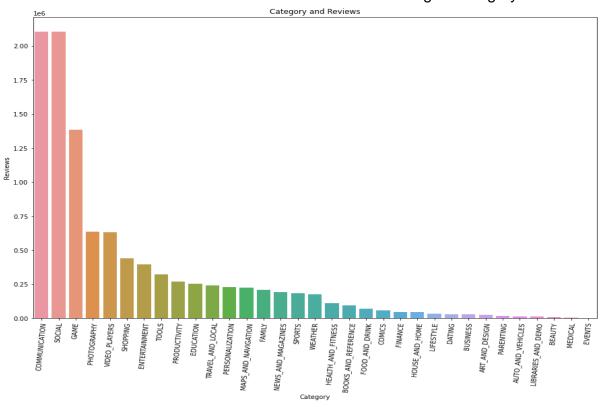
## 4 KPIs

KPI stands for key performance indicator, a quantifiable measure of performance over time for a specific objective. KPIs provide targets for teams to shoot for, milestones to gauge progress, and insights that help people across the organization make better decisions. From finance and HR to marketing and sales, key performance indicators help every area of the business move forward at the strategic level.

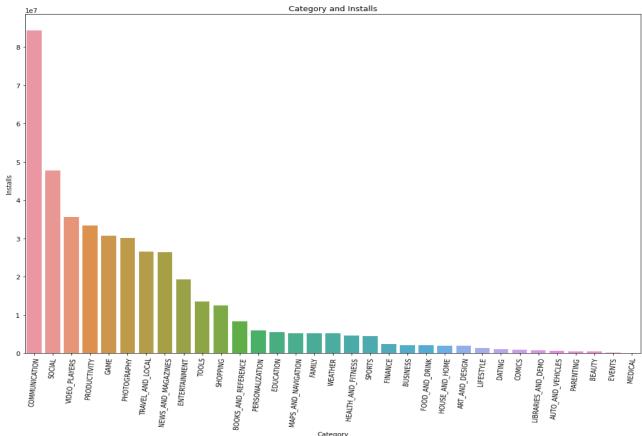
## 4.1 KPIs (Key Performance Indicators)

Key indicators displaying a summary of the Housing Price and its relationship with different metrics

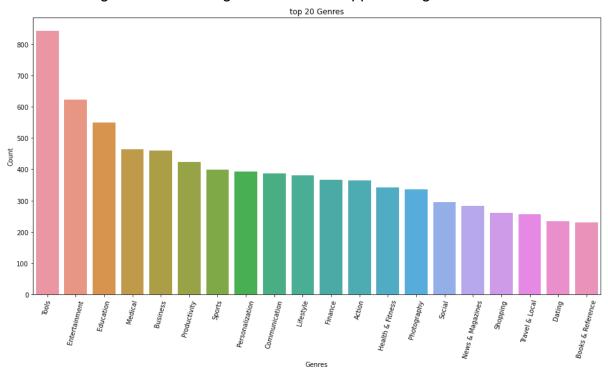
Communication and social have more reviews among all category



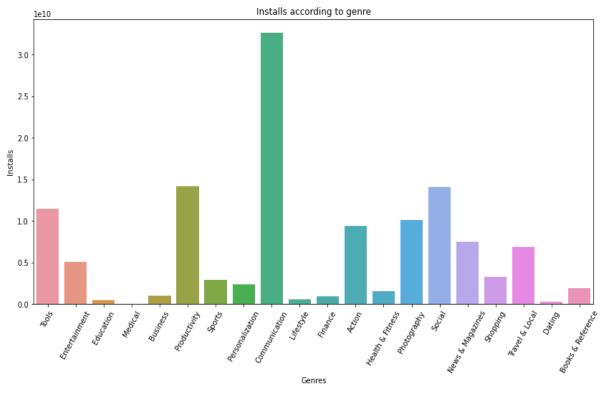
 Communication category apps has highest Installs followed by Social and Medical has least installs among the category



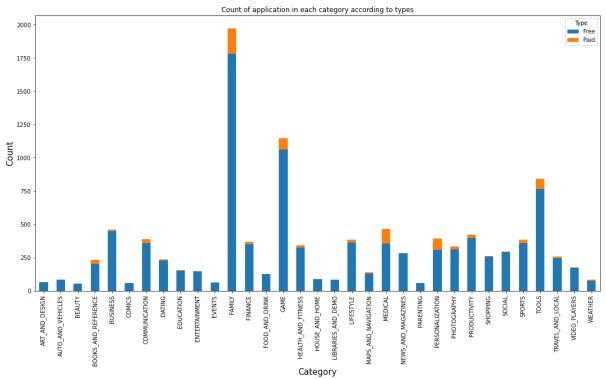
Tools genres has the highest number of apps among all



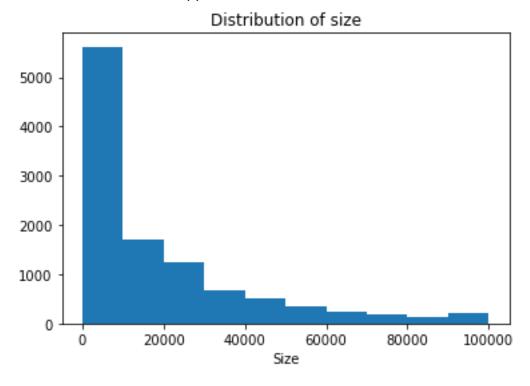
 Communication genres has the highest number of installs among the category.



 Family category has the greatest number of free and paid apps followed by games category

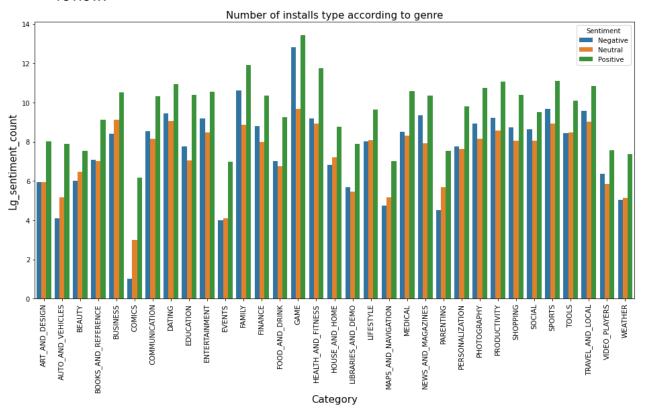


Most number of apps are more than 5MB of size





 Game category has the greatest number of Positive, Negative and Neutral review.



## **5 Deployment**

Prioritizing data and analytics couldn't come at a better time. Your company, no matter what size, 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-service by deploying various BI tools.