

Low-Level Design (LLD)

Analyzing Google Apps Store dataset
in terms of App downloads and Rating

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Document Version Control

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1. Introduction

1.1 What is Low-Level Design Document?

The goal of the Low-level design document (LLDD) is to give the internal logic design of the actual program code for the Google Playstore Analysis dashboard. LLDD describes the class diagrams with the methods and relations between classes and programs specs. It describes the modules so that the programmer can directly code the program from the document.

1.2 What is Scope?

Low-level design (LLD) is a component-level design process that follows a step- by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

1.3 Project Introduction

This is a project about tracking the performance of Google Apps store. Organizations under the technology industry seek to attain core competence by creating and sustaining a unique process to collect personal information about customers and their purchasing trends. The report critically evaluates how service-based organizations -Google use Management information systems to attain competitive advantage through efficient management and acquisition of information. The purpose of this project is to analyze google Apps store Data to obtain meaningful information.

2. Problem Statement

Technology is the increasing need nowadays and used everywhere. One of the features of Technology is android. Which we all use in our daily life. Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.

Do ETL : Extract-Transform-Load the dataset and find for me some information from this large data. This is form of data mining. What all information can be achieved by mining this data, would be brainstormed by the interns Find key metrics and factors and show the meaningful relationships between attributes.

Do your own research and come up with your findings.

3. Dataset Information

Apps: Name of The Apps

Category: Name of category apps belong.

Rating: Rating of application.

Reviews: Number of reviews

Size: Size of application

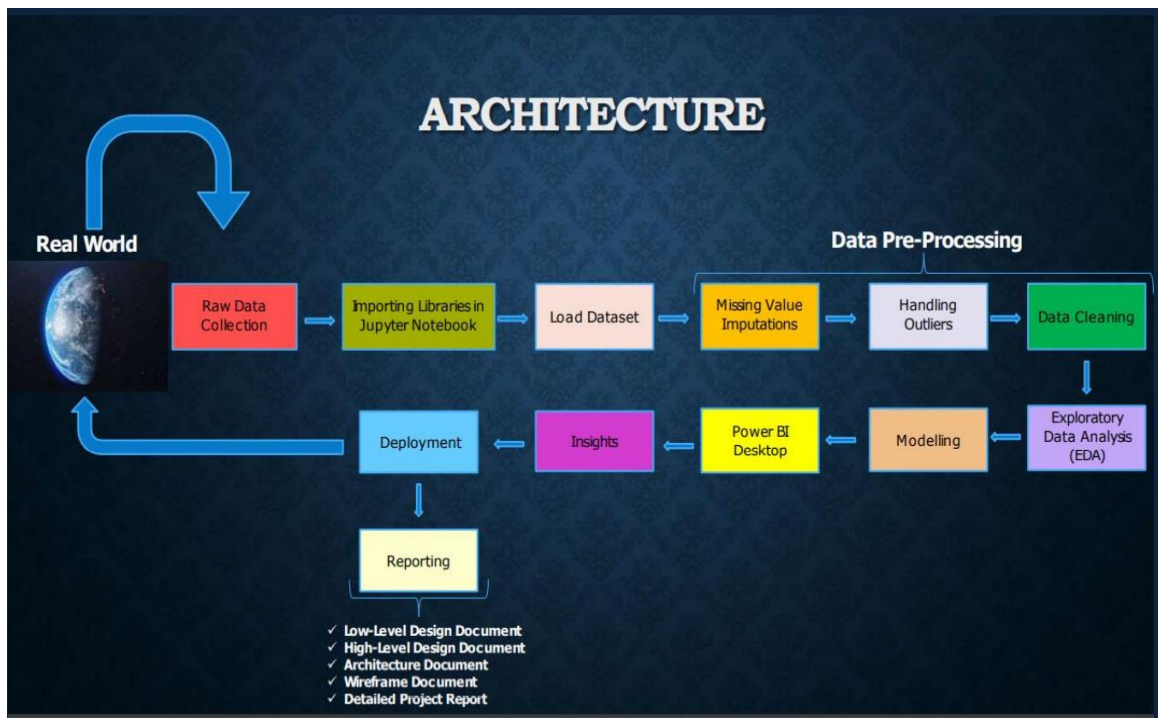
Installs: Number of app install by user

Type: FREE OR PAID

Price: Cost of Apps

Content Rating: Everyone, Everyone10+, Mature 17+,Teen ,Unrated, Adults only 18+

4. Architecture



4.1 Architecture Description

1. Raw Data Collection

The Dataset was taken from iNeuron's Provided Project Description Document.

2. Data Pre-Processing

Before building any model, it is crucial to perform data pre-processing to feed the correct data to the model to learn and predict. Model performance depends on the quality of data fed to the model to train. This Process includes-

- Handling Null/Missing Values
- Handling Skewed Data
- Outliers Detection and Removal

3. Data Cleaning

Data cleaning is the process of fixing or removing incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within a dataset.

- Remove duplicate or irrelevant observations
- Filter unwanted outliers
- Renaming required attributes

4. Exploratory Data Analysis (EDA)

Exploratory Data Analysis refers to the critical process of performing initial investigations on data to discover patterns, spot anomalies, test hypothesis and check assumptions with the help of summary statistics and graphical representations.

5. Reporting

Reporting is a most important and underrated skill of a data analytics field. Because being a Data Analyst you should be good in the easy and self-explanatory report because your model will be used by many stakeholders who are not from a technical background.

- High-Level Design Document (HLD)
- Low-Level Design Document (LLD)
- Architecture
- Wireframe
- Detailed Project Report
- PowerPoint Presentation

6. Modelling

Data Modelling is the process of analyzing the data objects and their relationship to the other objects. It is used to analyze the data requirements that are required for the business processes. The data models are created to store the data in a database. The Data Model's main focus is on what data is needed and how we have to organize data rather than what operations we have to perform.

7. Deployment

I created a Power BI Dashboard

