# CAPSTONE PROJECT SUBMISSION

#### Instructions

- I. Please fill in all the required information.
- II. Avoid grammatical errors.

## TEAM MEMBER'S NAME, EMAIL AND CONTRIBUTION:

# TEAM - DATA DEFENDERS

SNo	Member Name	Email	Contribution
1.	Lokesh Tokas	lokesh.you@gmail.com	Data Exploration &Plotting
2.	Saraswat Mukherjee	mae21saraswat@gmail.com	Data Assessment
3.	Shubham Verma	shubhamvermavki@gmail.co m	Data Relations
4.	Shubham Sartape		Presentation

#### PLEASE PASTE THE GITHUB REPO LINK.

GitHub Link - https://github.com/Donein/EDA-Capstone

PLEASE WRITE A SHORT SUMMARY OF YOUR CAPSTONE PROJECT AND ITS COMPONENTS.

DESCRIBE THE PROBLEM STATEMENT, YOUR APPROACHES AND YOUR CONCLUSIONS. (200-400 WORDS)

#### **PROBLEM**

The Play Store apps data has enormous potential to drive app-making businesses to success. Actionable insights can be drawn for developers to work on and capture the Android market.

Each app (row) has values for category, rating, size, and more. Another dataset contains customer reviews of the android apps.

Explore and analyse the data to discover key factors responsible for app engagement and success.

#### **APPROACH**

#### DATA ASSESSMENT

- info()
- describe()
- head()
- tails()
- isnull().sum()
- outliers

## DATA CLEANING/MANIPULATION BASED ON INITIAL ASSESSMENT

- Fixing 'Rating'
- · Cleaning 'Install'
- Filling NA Value in 'Ratings' with mode value.
- Checking and fixing 'null' value in 'Type'
- Checking overall null values in data
- Fixing NA value in 'Type', 'Current\_Ver', 'Android\_Ver' with mode()
- Cleaning 'Price'
- Cleaning 'Size':
- Dropping rows with Duplicate APP data
- Fixing 'Reviews' data type

#### **EXPLORATION**

- Top Category in Play Store.
- Top 3 Categories in Play Store by Content Rating
- Top 10 most installed paid app by installation no and their ratings.
- Paid vs Free app in Play Store
- Paid and free app by category in play store.
- App installs in each category.
- Top 10 category with Rating 4.0 and above.
- Top 10 category with highest average number of reviews.
- Paid app in each category by Price and no of installation.
- App installation by Size.
- Top App category with most reviews.

#### CONCLUSION

After careful examination of the play store data and app reviews, we can see there are some key factors that are responsible for app engagement and success:

- 1. Category Apps in **Family, Tools & Game** category are more likely to have higher success rate.
- 2. Content Rating Apps with content rating of **Everyone** has as dominating market share.
- 3. Paid apps Top installed apps in **Paid** type are mostly games with average rating of 4+ with installation numbers above 1M.
- 4. Market Share **Free** type apps dominates the play store market share at **92.2%** while **Paid** types are only at **7.83%**
- 5. Instillation Apps in **Game** category has overall highest no of installations.
- 6. Rating Apps in **Family, Game&Tools** category are more likely to have higher user ratings.
- 7. User Engagement App in **Social&Communication** category have very higher user engagement ratio as seen by comparing Review data.
- 8. Size Apps with **size** between **7-24MB** have higher installation numbers.
- 9. User Comments User are more compelled to give a feedback for appsin**Game**category, leading to an improved app experience.