# **Key Findings:**

### 1. Distribution of App Ratings

- Average Rating: The average rating of apps is around 4.2, with most apps falling within the 4.0 to 4.5 rating range.
- Rating Distribution: There is a significant number of apps with high ratings (4.5 and above), suggesting that users tend to rate apps highly if they are satisfied. However, there is a long tail of apps with lower ratings.

## 2. Installs and Ratings Correlation

- Positive Correlation: There is a positive correlation between the number of installs and the
  app rating. Apps with more installs generally have higher ratings, indicating that popular apps
  tend to be rated higher.
- **Outliers:** Some apps with very high install counts have slightly lower ratings, suggesting that while they are popular, they might not always meet user expectations.

### 3. App Categories Analysis

- Most Popular Categories: The top categories by the number of apps include Games,
   Productivity, and Social. Games have the highest number of apps, reflecting their popularity among users.
- **High Ratings by Category:** Categories like Education and Medical tend to have higher average ratings compared to others. This might be due to the specialized nature of these apps, which fulfil specific needs.

## 4. Free vs Paid Apps

- **Prevalence of Free Apps:** The majority of apps on the Google Play Store are free. Paid apps are relatively rare, which aligns with the general user preference for free applications.
- **Price and Ratings:** Paid apps tend to have slightly higher ratings on average compared to free apps, possibly indicating that users are more selective when they spend money on apps.

#### 5. App Size Trends

- **App Size Distribution:** There is a wide range in app sizes, with many apps falling between 10MB to 50MB. Larger apps tend to have more features and can be more complex.
- **Impact on Ratings:** Larger apps do not necessarily have higher ratings, suggesting that users value functionality and performance over app size.

### **6. Content Rating Insights**

- **Content Rating Distribution:** Apps rated for Everyone are the most common, reflecting the broad audience these apps target.
- Rating and Age Group: Apps targeted at Everyone generally have higher ratings compared to those rated for specific age groups, indicating that apps with a wider audience tend to be better received.

### 7. Update Frequency

•	<b>Last Updated:</b> There is a significant number of apps that have not been updated recently, which might affect their performance and user ratings.