SMARTWATCH DATA ANALYSIS

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CONTENTS

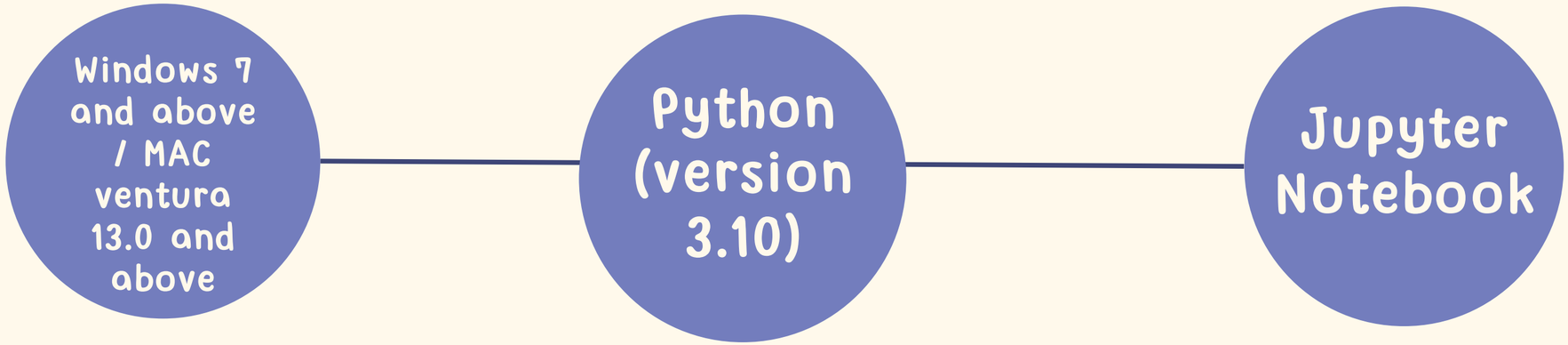
INTRODUCTION

This data analysis project is focused on exploring the contents of smartwatch dataset and gain valuable insights.

ABSTRACT

- An extensive dataset is used in this study, which is obtained from kaggle.com
- The primary objective of this project include an in-depth analysis of various content aspects such as total-steps, total-distance, calories etc...
- The project will provide a comprehensive report depicting key insights and findings of smartwatch data.

SYSTEM REQUIREMENTS



LIBRARIES USED

PANDAS:

- Used for data manipulation and analysis.
- Offers powerful data structures like DataFrames for handling structured data.
- Provides functionalities for filtering, grouping, and transforming data efficiently.

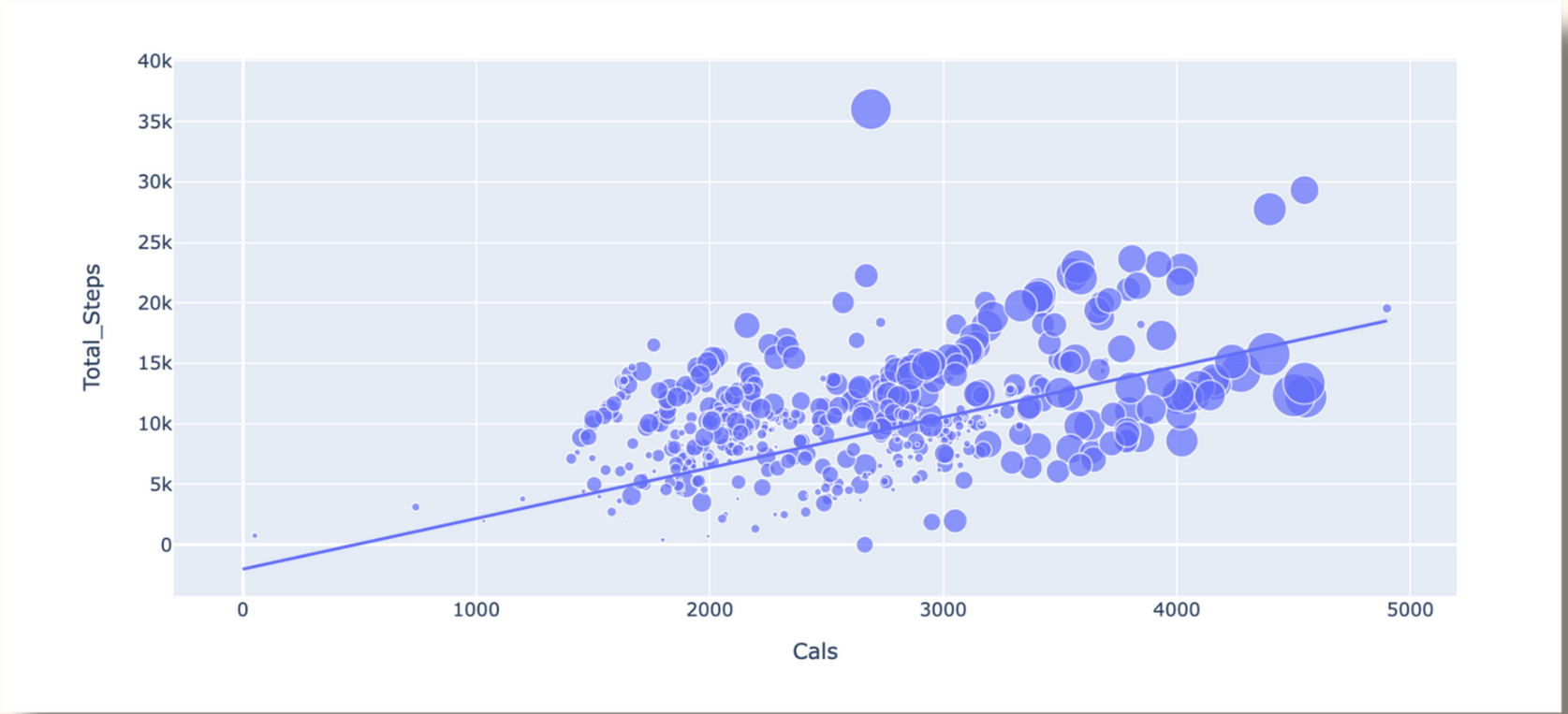
NUMPY:

- Used for numerical computations and array operations.

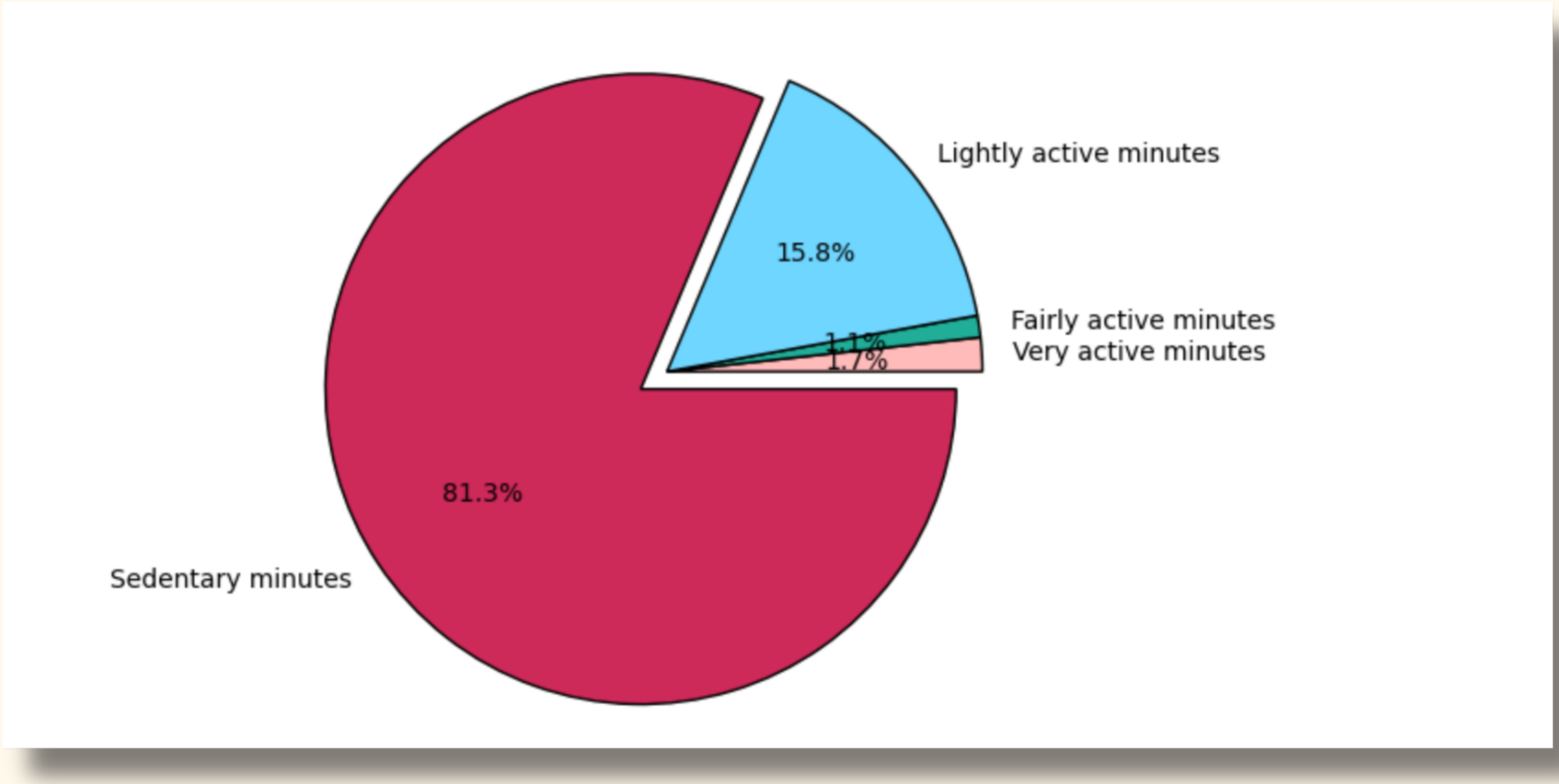
MATPLOTLIB:

- Used for creating basic static visualizations like line plots, bar charts, and histograms.

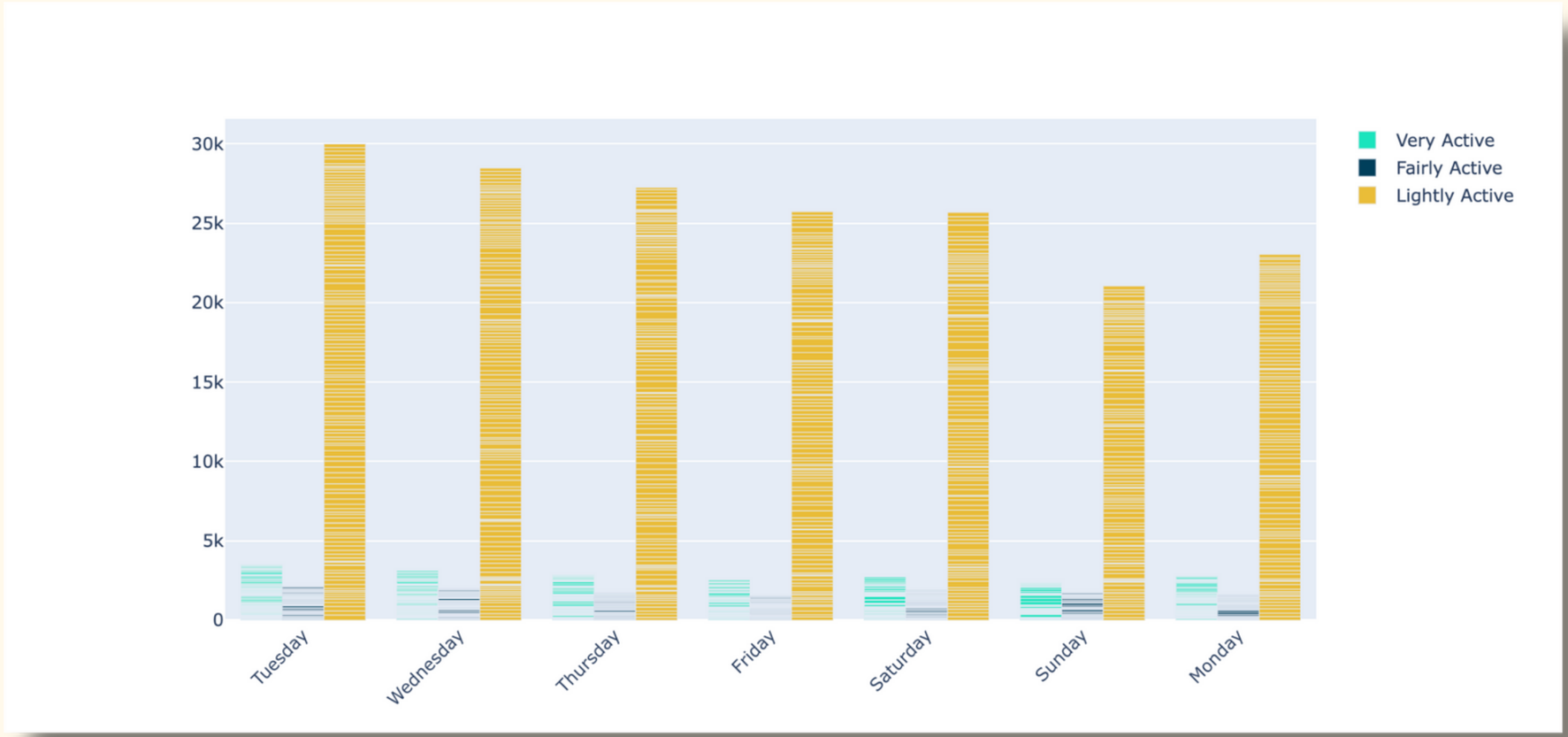
RELATIONSHIP B/W CALORIES AND TOTAL STEPS



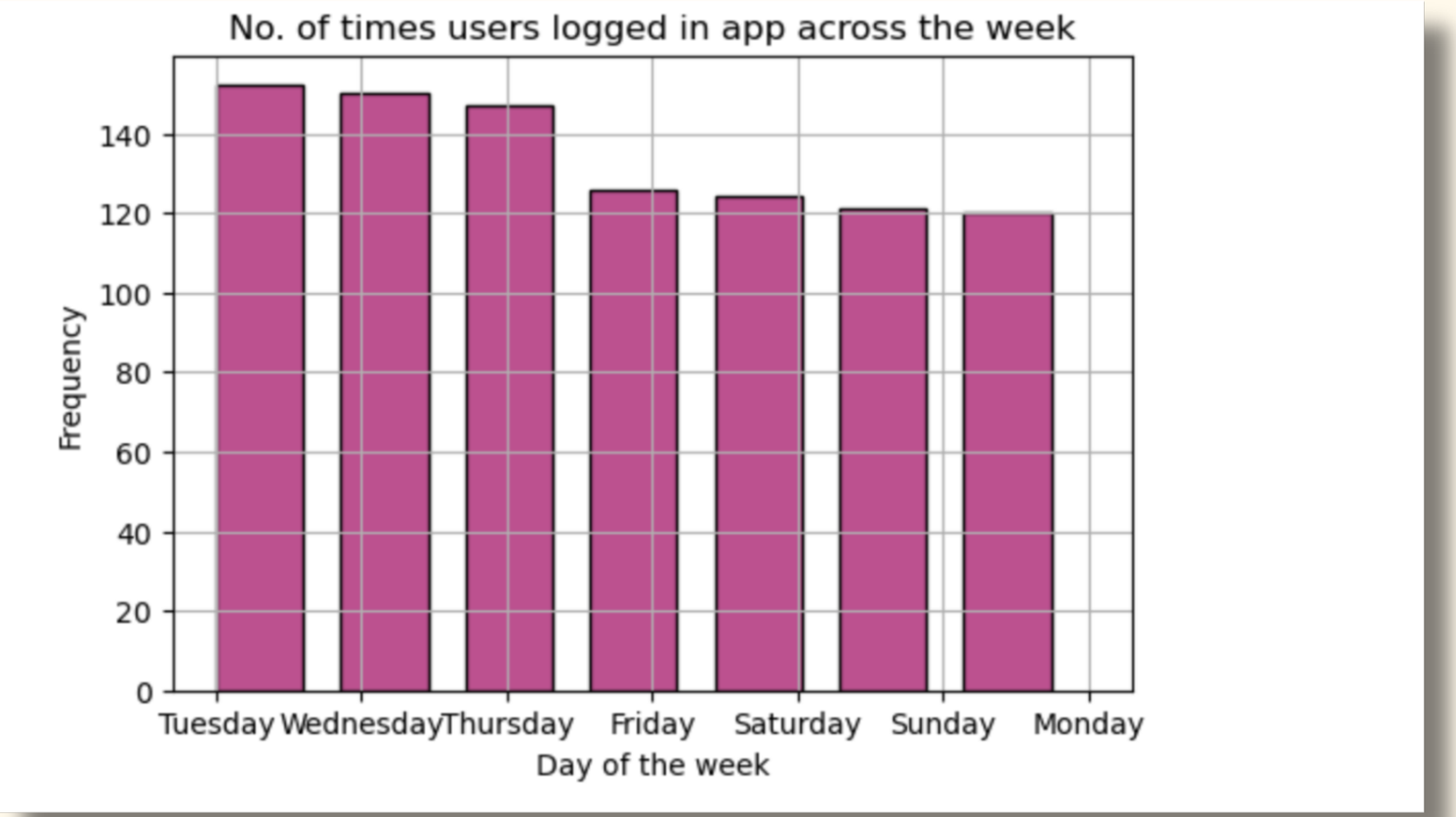
PERCENTAGE OF ACTIVITY IN MINUTES



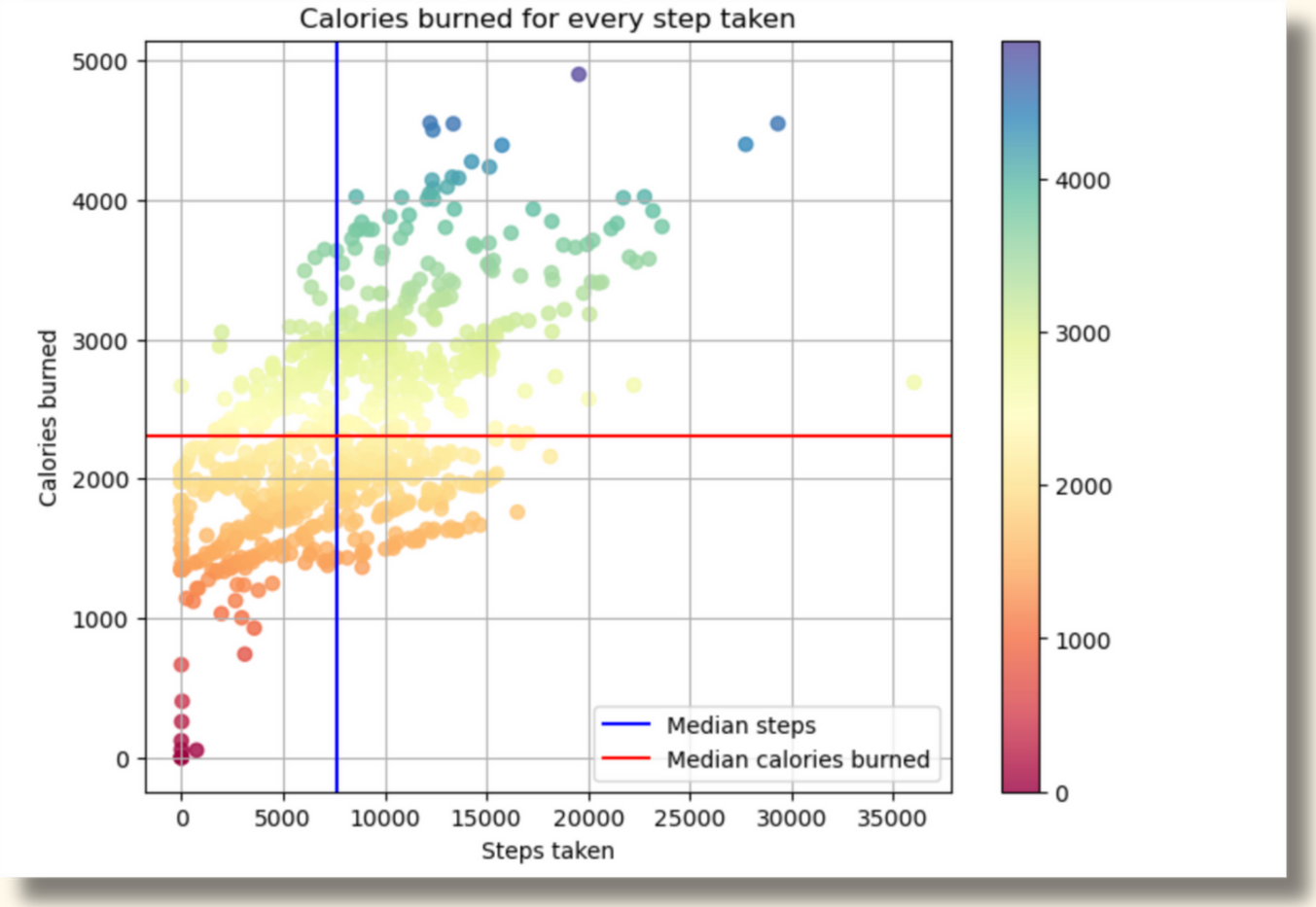
GRAPH FOR VERY ACTIVE, FAIRLY ACTIVE, AND LIGHTLY ACTIVE MINUTES ON EACH DAY OF THE WEEK.



NO.OF TIMES USERS LOGGED IN APP ACROSS THE WEEK



CALORIES BURNED FOR EVERY STEP TAKEN



CONCLUSION

As we conclude this data analysis project, our report offers a unique perspective on the contents of Smartwatch data. By Data Analysis using Python, we provide valuable insights and gain deeper understanding of users behaviours and health trends captured by smartwatches which provides an opportunity to the users to improve personalised healthcare, and enhance overall well-being.