SHORT-TERMINTERNSHIP

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Acknowledgements

This Power BI Presentation on topic "FITBIT FITNESS POWERING HEALTH ANALYSIS" we acknowledge the Power BI community for their valuable resources, tutorials and forums that aided in our project development.

We thank for creating a powerful and intuitive platform for data visulization and analysis we thank for their expertise in coffee Sales and insights in the coffee chain Sales field. which informed our predictive model we thank our team members for their contributions to data analysis and visulizations and insights.

Finally we thank our team members for their hard work and dedication to this project.

Contents

CHAPTER 1: EXECUTIVE SUMMARY

Description of the Sector of business intern
organization

Smart bridge operators in the data
analytics sector providing innovative solutions
to enhance business intelligence. The organization
leverages power. with actionable insights, enable
data-driven decision-making

Learning objectives & outcomes

1. understand Power BI fundamentals
2. Data Modeling
3. Proficiency in power BI tools
4. Data cleaning and transformation
5. Data visualization
6. Report design and sharing

Summary of Intership activities

i. Attending live training sections and projects
monitoring sessions

ii. Selection of topic " FITBIT FITNESS POWE
RING HEALTH ANALYSIS using PowerBI

iii) Team formation and assigned tasks to team members

iv) Designing & developing interactive dashboards. story. report on project using Power BI

v) Drafting a project video demonstrating and Preparation of final report

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Smart bridge is a platform that offers a virtual internship to the students. The platforms goal is to prepare students for the Job marketing by establishing a comparative relationship

Organization's objective

Smart bridge main objective is to bridge the existing gps between prevailing industry standard and what the academics offers to the graduates while passing out of universities. smart bridge offers suitable skills developments & training to the young talent before on boarding their first job.

We here by work along the line to offer best performance that helps the students to gain practical knowledge and hands on training to learn skills of these future... The main objectives of the smart bridge is providing Internship for Every student promot industry approved profesional collectives becomes a talent factors of India by 2026

Describe the work environment you have experienced *(in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)*

* During the project we have to got to known about the hors of FITBIT FITNESS POWERING HEALTH ANALYSIS in different locations

* We have analysed the data with basic facilities needed for the house

* The data set which was given to us was loaded into Power BI and we data cleaning process is done to remove the unwanted data

* During the project my team mates and I had a good interaction.

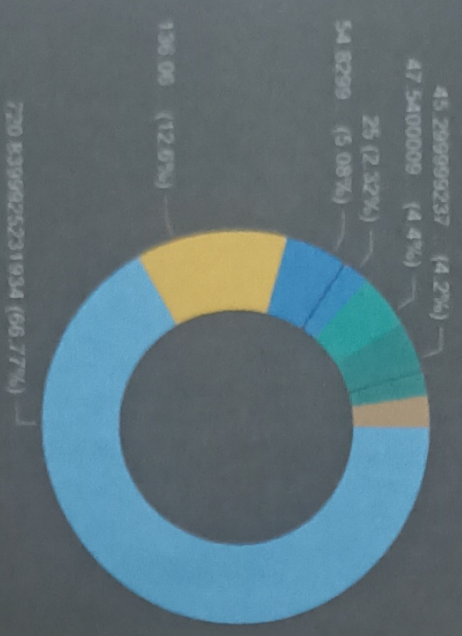* Finally we have done the project by the Power BI Successfully

CHAPTER 3: INTERSHIP PART

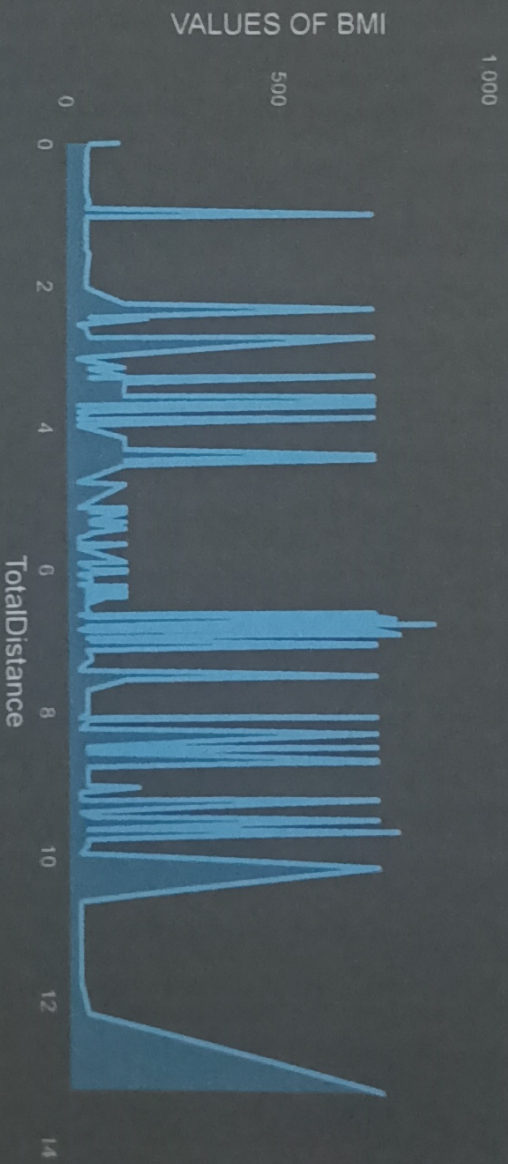Description of the activities / responsibilities undertaken

1. Registering with APSCHE smart internship Enrolling for Smart bridge's data analytics course i.e live training sessions as per the pre scheduled training calenders

2. Participating weekly quiz & completing weekly assigment w.r.t data analytics.

3. Gathering team formation and deletion of project topic "FITBIT FITNESS POWERING HEALTH ANALYSIS"

4. The Gathering cleaning & analysing the local data set of the project topic "FITBIT FITNESS POWERING HEALTH ANALYSIS

5. Attending project mentoring sessions and designing and developing interactive dashboard report on the project topic using power BI

6. Web integration of above project deliverables with team's web page using visual studio. code drafting a project video demonstration

7. Submission of team project via uploading the project files in github respository of the team
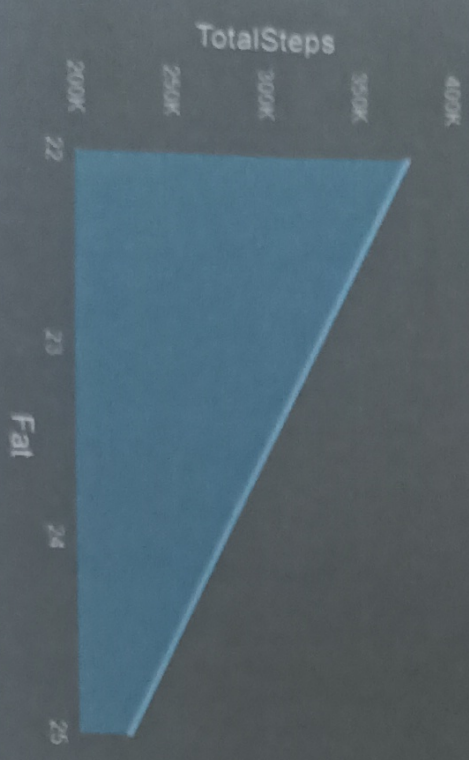
Fitbit Fitness Powering Health Analysis
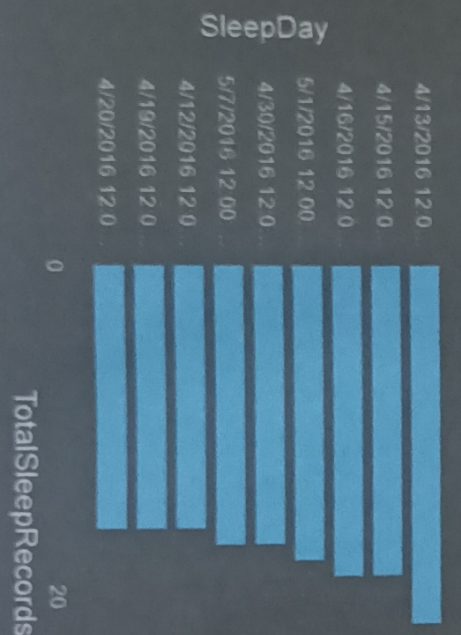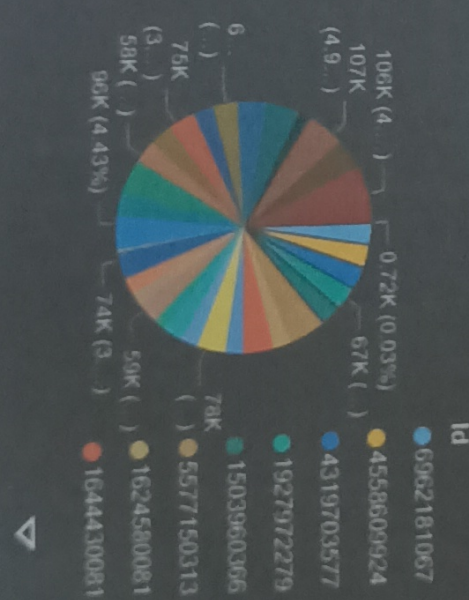
BMI and FAT VALUES by Id

45.299999237 (4.2%)
47.54000009 (4.4%)
25 (2.32%) (4.4%)
54.9299 (5.08%)

138.06 (12.6%)

720.83990252319934 (66.77%)

Id
- 6962181067
- 4558609924
- 4319703577
- 1927972279
- 1503960366
- 5577150313

VALUES OF BMI

VALUES OF BMI by TotalDistance

0   500   1 000

0   2   4   6   8   10   12   14
TotalDistance

TotalSteps by Fat

TotalSteps
400K
350K
300K
250K
200K

22   23   24   25
Fat

TotalSleepRecords by SleepDay

SleepDay
4/13/2016 12:0
4/15/2016 12:0
4/16/2016 12:0
4/30/2016 12:0
5/1/2016 12:00
5/7/2016 12:00
4/12/2016 12:0
4/19/2016 12:0
4/20/2016 12:0

0   20
TotalSleepRecords

BMI and Calories by Id

106K (4..)
107K
(4.9..)
0.72K (0.03%)
67K (..)
6..
(..)
75K
(3..)
59K (..)
59K (..)
74K (3..)
90K (4.43%)

78K
(..)

Id
- 6962181067
- 4558609924
- 4319703577
- 1927972279
- 1503960366
- 5577150313
- 1624580081
- 1644430081

Fitbit Fitness Powering Health Analysis Report

TotalSleepRecords by Id

70bn

18

5bn

0bn

0   20   40

TotalSleepRecords

BMI and FAT VALUES by Id

22 (2.04%)
47 54   (4.4%)
54   (5)
13 ( )
720 8399   (66.77%)

Id
- 6962181067
- 4558609924
- 4319703577
- 1927972279
- 1503960366
- 5577150313

BMI and Calories by Id

57K (2.63%)
107K
91K
(4.92%)
80K ( )
(4.22%)
66K
(3.05%)
75K
(3.48%)
58K
(2.68%)
96K (4.43%)

0.72K (0.03%)
67K (3)
56K (2)
101K
(4.65%)
84K
(3.87%)
49K ( )
78K ( )
53K
(2.47%)
39K (1.78%)

Id
- 6962181067
- 4558609924
- 4319703577
- 1927972279
- 1503960366
- 5577150313
- 1624608081
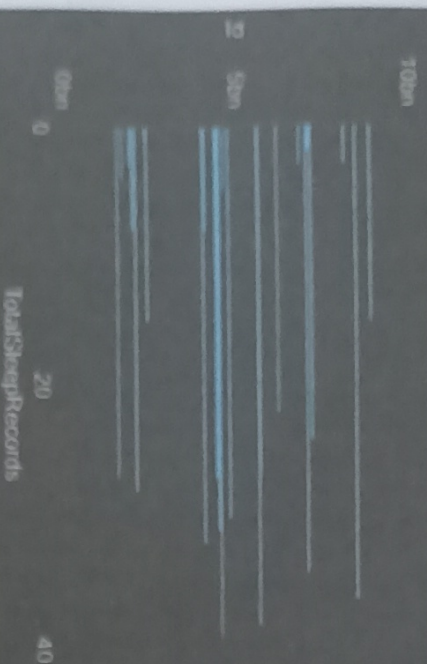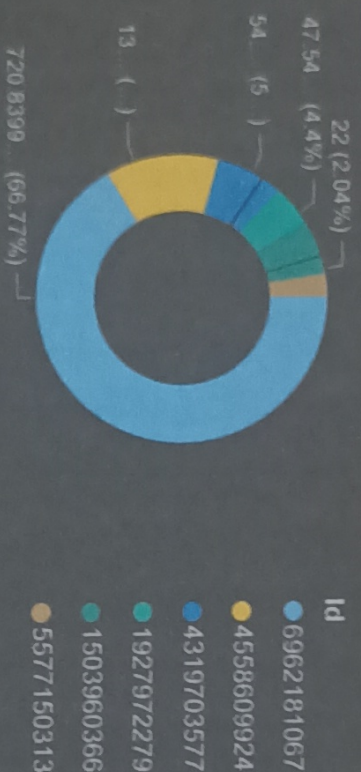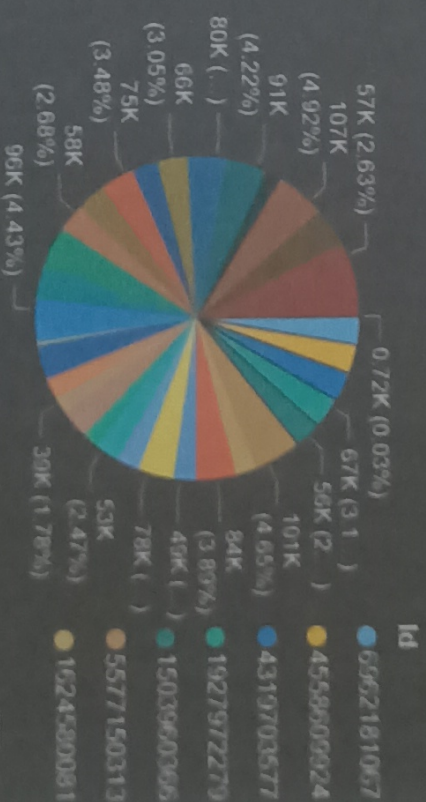
REPORT :- This dataset has information of fitbit fitness powering health analysis and it contains

dailyActivity_merged1,sleepday_merged,weightloginfo_merged.

DailyActivity_merged1 contains Activity,date,id,Total steps, Tracker distance,Total distance etc...

Sleepday_merged contains Total time in bed,id,sleep day, total sleep record etc...

Weightloginfo_merged contains BMI ,Date ,Fat ,Log id ,weightkg ,weightpounds etc...

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 03/07/24	Introduction to Data Analytics IBM lognos	Agenda, various types of data and key points	
Day – 2 04/07/24	Difference between Business intelligence and Business analytics	Power BI and business intelligence and agnos account	
Day – 3 05/07/24	Visulization creation cleaning of data	Types of visulaizations and its creation	
Day – 4			
Day – 5			
Day – 6			

Objective of the Activity Done: Introduction to Power BI data Analysis.

Detailed Report: Agenda of Data Analytics includes understanding the fundamentals of Power BI and the importance of data analytics in bussiness decision-making

* Attended on orientation session on the internship objectives and deliveable

* Completed introductory modules on Power BI, including its Interface, key features and capalilitics

* Connected to different data sources and performed basic data cleaning

* Created a simple report show casing basic Visulization such as bar charts and line graph

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 08/7/24	Creating data Visualizations	Summary chart Bubble chart. scatter chart	
Day – 2 09/7/24	Inserting Visualization on dashboard and its creation	Dashboard creation and inserting Visulizations	
Day – 3 10/7/24	Inserting Visualizations on dashboard and its creation	Dashboard creation and Inserting Visulization	
Day – 4 11/7/24	Report creation	Report creating	
Day – 5 12/7/24	Assignment	Create Visulizations	
Day – 6			

Objective of the Activity Done: Data importing & Modeling

Detailed Report: This week dedicated to Mastering data importing and modeling within Power BI

* Explored different data connectors available in Power BI, Such as Excel, SQL database and online Services

* Learning about the ETL (Extract, Transform, Load) process with Power BI

* Practiced data modeling techniques, including Creating relationships b/w tables, using DAX (Data Analysis Expressions) Functions and designing calculated Columns

* Successfully imported datasets from multiple sources into power BI

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 15/07/24	Data Visualization techniques	Creating Effective & Intor active data visulization	
Day – 2 16/07/24	Visualizations options in power BI	Studied Various Visualizations including charts	
Day – 3 17/07/24	Designing interactive dash boards	Participated in a hands on session to design dash board	
Day – 4 18/07/24	Appropriate Visulization for different data types	Learned best Practices in diff data types	
Day – 5 19/07/24	Creating a dash board	Designed a Comprehensive dash board	
Day –6			

Objective of the Activity Done: Data Visualization Technique

Detailed Report: This week focused on creating Effective and Interactive data visualization in Power BI

* Studied various visualizations options available in Power BI, including advanced charts, maps and custom visuals

* Participated in a hands-on session to design interactive dash boards with slicers filters and drill throughs

* Learned best practices for choosing appropriate visualizations for different data types and insights

* Designed a comprehensive dash board featuring key matrices using a mix of visuals

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 23/7/24	Advanced data Analysis with DAx	understanding of DAx for advanced data analysis	
Day - 2 24/07/24	Completed advanced DAx training modules covering topics	Completion of over advanced DAx	
Day - 3 25/07/24	Case study that required Creating Complex measures	Calculate year over year growth and rolling averages	
Day - 4 26/07/24	Trouble shoot DAx related issues	Collaborated with peers to it	
Day - 5			
Day - 6			

Objective of the Activity Done: Advanced Data Analysis with DAX

Detailed Report: This week was dedicated to deepening our understanding of DAX for advanced data analysis

* Completed advanced DAX training modules covering topics such as time intelligence, advanced filtering and context management

* Worked on a case study that required creating complex measures to calculate year-over-year growth and rolling averages

* Collaborated with peers to troubleshoot DAX-related issues in our data models

* Improved this accuracy and efficiency of data models using advanced Dax

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 29/7/24	Real- world Case study	Sales Analysis	
Day - 2 30/7/24	Power BI skills to a real world Sales analytics	Focus On Power BI skills	
Day – 3 31/7/24	Defined By key performance Indicator	Scales growth customes acquition	
Day – 4 1/8/24	Built a sales dash-board visualize the kpl's	understanding the viswlize the kpls	
Day – 5 2/8/24	Built a Sales dash beard to visulize the kpl's	understanding the visualize the kpl's	
Day – 6			

Objective of the Activity Done: Data Visulizations Techniques

Detailed Report: This week focused on creating Effective and Interactive data Visulizations in Power BI.

* Studied various Visualizations options available in Power BI, including advanced charts, maps and Custom visuals.

* Participated in a hands on session to design interactive dashboards with slicers filters and drill troughs

* Learned best Practices for choosing appropriate Visulization for differnt data types and insights

* Designed a comprehesive dashboard featuring key metrics using a mix of Visuals

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 05/8/24	Practical application of Power BI skills	Understanding the application	
Day - 2 06/8/24	Identify trends outliers and areas	Identifying & Improving	
Day - 3 07/8/24	Defined by product performance	Doing the product Performance	
Day - 4 08/8/24	Sales Analytics by case study	case study	
Day - 5 09/8/24	Visulizing the KPI's	Doing it in the visulization	
Day - 6			

Objective of the Activity Done: Real world case study: sale Analysis

Detailed Report: The focus this week was on applying Power BI skills to a real-world sales analytics case study

* Recieved a dataset representing sales data from a fictional company

* Defined key performance indicators (KPI's) Such as Sales growth, Customer acquisition and product performance

* Built a sales dashboard to visulize the KPI's and identify trends, outliers and area for improvement

* Recieved positive feedback from mentors on the practical application of power BI skills

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 12|8|24	Project work	Doing the Presentation	
Day – 2 13|8|24	Project scope objectives & deliverables	started by doing Project scope	
Day – 3 14|8|24	cleaning & transforming	Data should be cleaned before loading	
Day – 4 15|8|24	Holiday		
Day – 5 16|8|24	Identifying key metrics trends & patterns	which drive business decision	
Day – 6			

Objective of the Activity Done: Project work *. Data Analysis and visualizations

Detailed Report:

This week marked the beginning of the Project Phase

* started by defining the project scope, objectives and deliverables

* The project involved analysing a dataset Provided by smart internz, cleaning & transforming the data building a data model

* Our team Focused on identifying key metrices trends and Patterns that could drive business decisions

* The Intial reports and dashboards were created to visualize these insights using these insights, using the skills and technique learned over the Past six weeks

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 19/8/24	Finalization and Presentation	Completion of the project	
Day – 2 20/8/24	Enhancing the visual appeal and usability of the dashboard	Ensuring the data was accurately represented	
Day – 3 21/8/24	Presentation & Voice over	Explanation about project	
Day – 4 22/8/24	At last we showed our findings & methodolgies	insights could be applied to solve real business problems	
Day – 5 23/8/24	Submission of the project	successful conclusion to the Internship	
Day – 6			

Objective of the Activity Done: Project Work : Finalization and
Presentation

Detailed Report:

In this week we completed the Project by refining our reports and dash boards. Ensuring they met the Project requirement

* We Focused on Enhancing the visual appeal and usability of the dashboards by adding interactive elements and Ensuring the data was accurately represented.

* This week ulminimated with a presentation to the Smart internz team, where we show cased our finding, Explained the methodologies used and demonstrated how the insights could be applied to solve real business problems.

* The Project was well recieved marking a successful conclusion to the Internship.

Technological Developments :-

* Preparing the data for visualization involves cleaning the data for remove irrelevent or mining data

* Transforming the data into a format that can be easily visualized Exploring the data to Identify . pattern and trends

* This process helps to make the data easily understandable and ready for breating visualization to gain insights into the performance so efficiently

Group Decisions

* Our team member had a group discussion making on visualizations about the data given to us

* we had deeply get into the data and analysed the data and transformed the data into the power BI

* we all had decided and separated the work by the given data and assigned the work to every team member

* we have visualized the data into graphical representation to explain about the visualization easily to the other person

Improving communication skills

* While explaining the project the communication is very important

* We need to deliver the process of the data which we analysed and visualized in the bar charts (or) pie charts

* our written communication also helps others to analyse the data by reading

* The way we deliver the data and getting understand by others is very important

Leadership skills

* Effective leadership requires a combination of technical knowledge, interpersonal skills and strategic thinking

* Making informed and timely decisions even under pressure. Considering both short term and long term impacts

* Developing a clear vision for the future and formulating strategies to achieve the vision

* Identifying challenges and obstacles and developing effective solutions

* Addressing and managing conflicts within the team in a constructive manner

Real time technical skills

* These skills are crucial in industries where immediate processing, response or feed back is essential such as finance, gaming, tele communications or Embedded systems

* Skills in testing and debugging systems where timing and synchronization are critical Ensuring that real time constraints are not violated

* Managing database that supports real-time data retrieval and updating, critical for systems like locations, areas & prices

* These skills are often developed through specialized Education, hands on experience and continuous learning and reliability