



SHORT-TERM INTERNSHIP



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CHAPTER 1: EXECUTIVE SUMMARY

Description of the sector of business and Intern Organization:- Smart bridge operates in the data analytics sector, providing innovative solutions to enhance the business intelligence. The organization lives ages. Power @ to empower clients with actionable insights, enabling data - driven decision - making.

Learning Objectives and Outcomes:-

- Data cleaning
- Data preprocessing and manipulation
- Statistical analysis .

Summary of Internship Activities:-

- Attending live training sessions and project - mentoring sessions.
- Selection of topic - "student performance Analysis" and gathering , clearing and analysing its related data sets in excel.
- Team formation and assignment of tasks to team members.
- Designing and Developing dashboard and report
- Drafting project video demonstration and preparation of final reports.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Smart Bridge is a platform that offers virtual Internship to the students. The platform's goal is to prepare students for the job market by establishing a cooperative relationship between Industry and Academia. Smart Bridge partners with Companies such as google to offer virtual internships. The internships provide students with hand-on experience with the latest technologies, and enable project-based learning. Smart Bridges flagship event is the "Summer Internship program". The program develops students skills in emerging technologies i.e.,

- Artificial Intelligence
- Machine Learning
- Internet of things.

Organization Objective :- Smart Bridge's main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates which passing out of university. Smart Bridge's offers suitable

Skill development and training to the young talent before on boarding their first job.

Their skill development programs are designed considering the present in demand skills in the industry. we thereby work along the line to offer best programs that helps the students to gain practical knowledge and hands on training to learn skills of the future.

Therefore, the main objectives of Smart bridge is providing internship for every student, promote industry approved professional electives , and becomes a talent factory of India by 2026 .

CHAPTER 3 : INTERNSHIP PART

Description of the activities / Responsibilities Undertaken:-

- Registering with APSCHE Smartinternz and enrolling for Smartbridges' data analytics course i.e., live training sessions as per the pre - scheduled training calendar.
- Participating weekly quiz and completing weekly assignments with respect to data analytics.
- Team formation and selection of project topic " Indian Startup funding".
- Gathering , cleaning and analyzing the excel data sets of the project .
- Attending project - mentoring sessions and designing and developing interactive dashboard , story , Report .
- Web integration of above project deliverables with team's web page using visual studio code , drafting a project video demonstration and and preparation of final report -
- Submission of team project via uploading the project files in Github repository of the team .

CHAPTER 4: OUTCOMES DESCRIPTION

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.)

Description of work environment :-

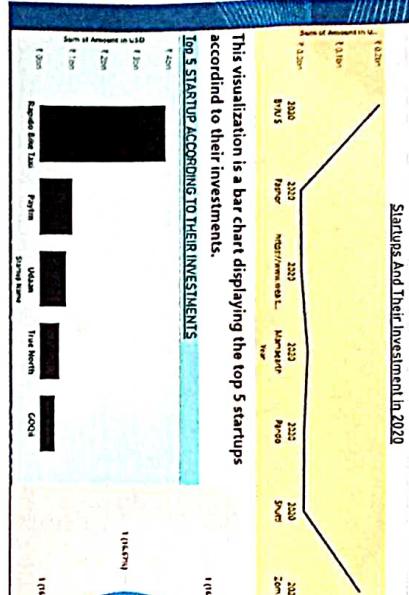
The internship at smart Bridge has been a transformation experience, equipping me with practical skills in Data-Analytics and a deep understanding of the role of power bi in the industry. The hands-on experience and exposure to real-world projects has not only sharpened my technical abilities but has also honed my communication skills and project management skills. The work environment fostered a collaborative atmosphere with clear task-roles, well-defined protocols and structured procedures. The facilities were equipped with necessary tools for data analysis. Team members exhibited mutual support and teamwork, contributing to a harmonious relationship. Overall, the internship provided a comprehensive experience in data analytics within a well-organized and supportive work environment.

INDIAN STARTUP FUNDING

This visualization is a line chart displaying the investments received by various startups in 2020.

Startups And Their Investment In 2020

Describe about Startup Funding

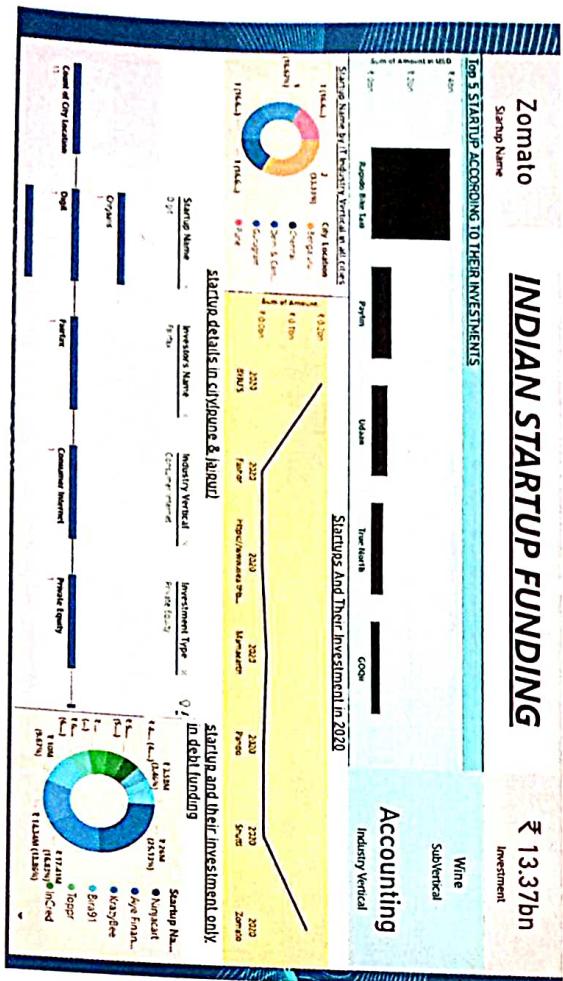


This dataset has funding information of the Indian startups from January 2018 to January 2020. It includes columns with the date funded, the city the startup is based out of, the names of the funders and the amount invested (in USD).

Startup Name by IT Industry Vertical in all cities



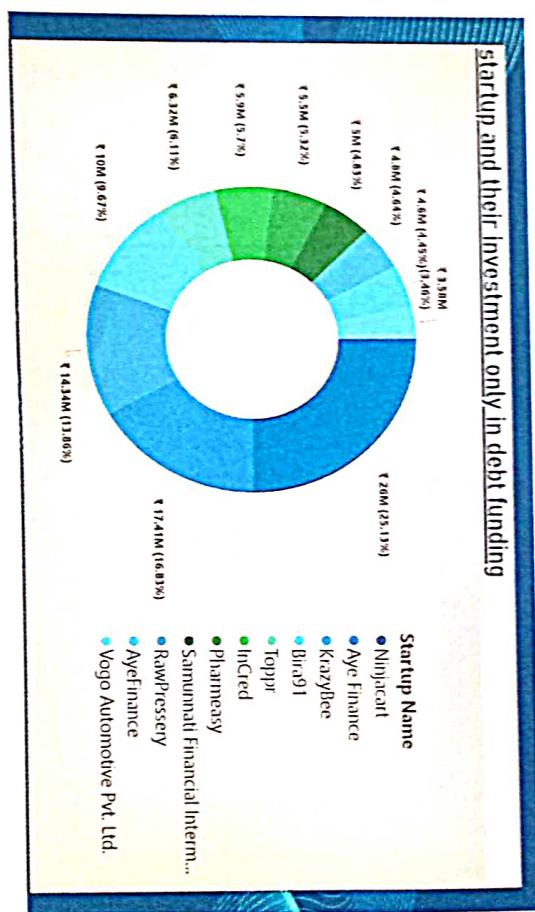
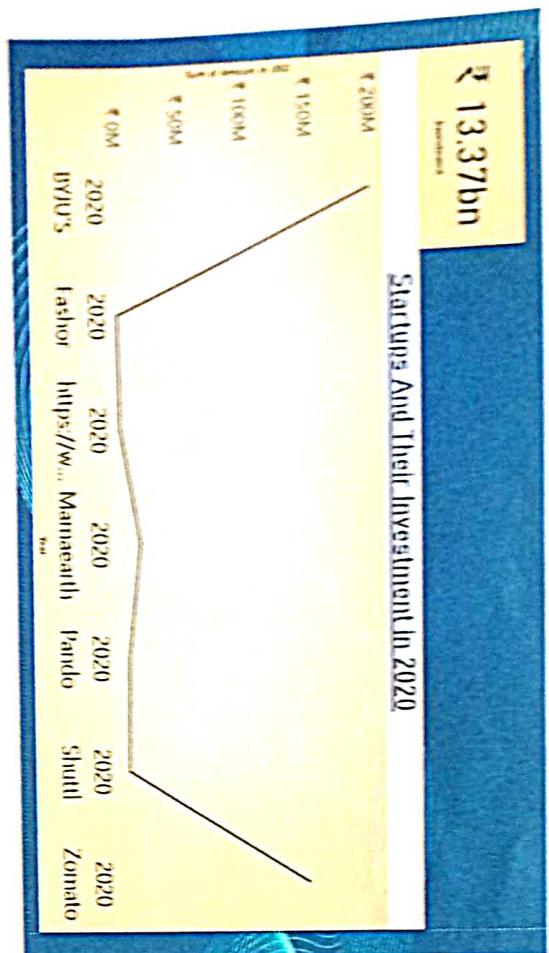
Startup Name
Zomato



Top 5 STARTUP ACCORDING TO THEIR INVESTMENTS

Startup Name	Industry Vertical	SubVertical	Investment
Rapido Bike ...	Accounting	Wine	₹ 13.37bn
Paytm	Banking	Banking	₹ 12.5bn
Udaan	E-commerce	Logistics	₹ 12.2bn
True North	Healthcare	Healthcare	₹ 11.5bn
goQii	Healthcare	Healthcare	₹ 11.5bn

Sum of Amount in USD



ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 31/7/24	Introduction of data analysis and interpreted data visualization	Analysis of the topic	
Day - 2 4/8/24	Agenda and understanding consumers	Clear view of business problem and its solution	
Day - 3 5/8/24	Types of analysis process and download of power bi	Clear analyses on DA tools and process regarding it	
Day - 4			
Day - 5			
Day - 6			

WEEKLY REPORT

WEEK - 1 (from Dt 3/7/24 to Dt 5/7/24.....)

Objective of the Activity Done: Introduction to PowerBi , Data Analytics.

Detailed Report: Agenda of data analytics includes

Understanding the fundamentals of Power Bi and the importance of data analytics in business decision-making .

- Attended an orientation session on the Internship objectives and deliverables.
- Completed introductory , key features , and capabilities.
- Learned about the various types of data sources that can be connected to power Bi
- It developed a foundational understanding of power bi.
- Connected to different data sources and performed basic data cleaning.
- Created a simple report showcasing basic visualizations such as bar charts and line graphs .
- Participated in a workshop on basic data cleaning and transformation techniques.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 8/7/24	features and components of power bi	clear view on every component required	
Day -2 9/7/24	power bi in action and its architecture	visible insights and seeks format	
Day -3 10/7/24	power query and transformation operations	clarity about ETC tools	
Day -4 11/7/24	Tools present in power bi desktop	clear view on each and every tool present.	
Day -5 12/7/24	Analysing the data in different types	learned about practically on data usage .	
Day -6			

WEEKLY REPORT

WEEK - 2 (From 01/07/24 to 07/07/24.....)

Objective of the Activity Done:

Data Importing and Modelling

Detailed Report:

This week dedicated to mastering data importing and modelling within Power BI

- Explored different data connectors available in Power BI, such as Excel, SQL databases and online services.
- Learned about the ETL (Extract, Transform, Load) process within Power BI.
- Practiced data modelling techniques, including creating relationships between tables, using DAX (Data Analysis Expressions) functions, and designing calculated columns.
- Successfully imported datasets from multiple sources into Power BI.
- Built a robust data model with well-defined relationships.
- Used DAX to create calculated columns and measures for enhanced analysis.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 15/7/24	Data collection and data cleaning	Learned about the process of DA	
Day -2 16/7/24	Differentiated between storyboard, dashboard and report	Learned the differences about contents to represent	
Day -3 18/7/24	Data structuring and its usage with power Bi	Learned the usage of data structure.	
Day -4 19/7/24	Revised on topics as far completed.	Clear view with the usage of power Bi	
Day -5			
Day -6			

WEEKLY REPORT

WEEK - 3 (From 01/15/24 to Dt... 19/7/24....)

Objective of the Activity Done:

Data Visualization Techniques

Detailed Report:

This week focused on creating effective and interactive data visualizations 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-throughs.
- Learned best practices for choosing appropriate visualizations for different data types and insights.
- Designed a comprehensive dashboard featuring key metrics using a mix of visuals.
- Implemented interactivity through slicers and filters to allow users to explore the data dynamically.
- Presented the dashboards to peers to feedback.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 22/7/24	Research the additional information	Additional information about power bi	
Day -2 23/7/24	Revised about data collection and data Cleaning	Learned about starting process in DA	
Day -3 24/7/24	Revised about the data visualization	clear view on visualization part	
Day -4 25/7/24	DAx and DAx functions	Clear view on DAx functions	
Day -5 26/7/24	All the functions present in power bi	Learned about the functions to apply	
Day -6			

WEEKLY REPORT

WEEK - 4 (From 01.02.21 to 01.07.21)

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.
- Developed proficiency in writing complex DAX expressions.
- Applied time intelligence functions to analyze trends over time.
- Improved the 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	Explained more factors in DAX	learned about expressions and functions in DAX	
Day - 2 30/7/24	more about filters functions in DAX	clearview on different views	
Day - 3 31/7/24	Preparation for grand assessment	prepared for test	
Day - 4 1/8/24	Preparation for grand assessment.	prepared for test	
Day - 5 2/8/24	grand assessment test	Grand the test	
Day - 6			

WEEKLY REPORT

WEEK - 5 (from 01/01/21 to 01/08/21)

Objective of the Activity Done:

Real-world case study : Sales Analysis

Detailed Report:

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

- Received a dataset representing sales data from a fictional company.
- Defined key performance indicators such as sales growth, customer acquisition and product performance.
- Built a sales dashboard to visualize the KPIs and identify trends, outliers and areas for improvement.
- Created a comprehensive sales dashboard that highlighted crucial business insights.
- Used data story telling techniques to communicate findings effectively.
- Received positive feedback from mentors on the practical application of power bi skills.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 5/8/24	Optimising power Bi report	Clear view on Optimising	
Day -2 6/8/24	Implementation of Incremental data	learned about DA with huge dataset .	
Day -3 7/8/24	Application in business Scales	Clear view on real-time applications.	
Day -4 8/8/24	Application of techniques to size data models	Learned about sizing data models .	
Day -5 9/8/24	Learned about users Information with reports	Clear view on report based data .	
Day -6			

WEEKLY REPORT

WEEK - 6 (From Dt 5/8/24 to Dt 9/8/24.....)

Objective of the Activity Done:

Report Optimization and performance tuning

Detailed Report:

This week focused on optimizing Power BI reports for performance and scalability.

- Learned about Power BI report optimization techniques, including data reduction, efficient use of DAX, and query optimization.
- Implemented incremental data refresh to improve report load times.
- Explored best practices for managing large datasets and reducing memory usage.
- Optimized existing reports to load faster and handle larger datasets.
- Applied techniques to reduce the size of data models without losing critical information.

SEVENTH
ACTIVITY LOG FOR THE ~~FIRST~~ WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 12/5/24	Formation of team	Clear view on team.	
Day -2 13/5/24	Project scope and objectives	Clear view on project assigned.	
Day -3 14/5/24	Aggregation of public reports.	Segregation of data analysis	
Day -4 15/5/24	Configured public refreshes	Reviewed self on database	
Day -5 16/5/24	Feedback on accessibility with published report.	Clear view on outcome of reports.	
Day -6			

WEEKLY REPORT

WEEK - 2 (From Dt 12/8/24 to Dt 16/8/24)

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 analyzing a dataset provided by Smart Internz, cleaning and transforming the data, and building a data model.
- Our team focused on identifying key metrics, trends and patterns, that could drive business decisions.
- The initial reports and dashboards were created to visualize these insights, using the skills and techniques learned over the past six weeks.

EIGHTH
ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 19/8/24	Presenting actionable insights	Clear view on pictorial representation	
Day - 2 20/8/24	Presenting the dashboards and reports	Representing the final output.	
Day - 3 21/8/24	Collaborations, file uploading	Allotting work to all members in team.	
Day - 4 22/8/24	Reviewing on dashboard, report	Clear view on work done in DA	
Day - 5 23/8/24	Submission of project	Submitted to mentors.	
Day - 6			

WEEKLY REPORT

WEEK - 8 (From Dt. 19/8/24 to Dt. 23/8/24....)

Objective of the Activity Done: Project work - finalization and Presentation.

Detailed Report:

In this week, we completed the project by refining our reports and dashboards, ensuring they met the project requirements.

- We focused on enhancing the visual appeal and usability of the dashboards by adding interactive elements and ensuring the data was accurately represented.
- The week culminated with a presentation to the smart Internz team, where we showcased our findings, explained the methodologies used, and demonstrated how the insights could be applied to solve real business problems.
- The project was well received, marking a successful conclusion to the internship.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

Description of the technical skills acquired :-

Data Analysis :- Proficiency in examining and interpreting complex data set.

Statistical Analysis :- Understanding and applying statistical methods to derive insights.

Data Visualization :- Mastery in creating compelling visualization for effective communication of data.

Analytics tools proficiency :- Proficiency with web based tools like ms excel, power bi, google colab for analytics and visualization.

Programming language :- Knowledge and expertise in python programming language.

Visualization generation :- Skills in developing interactive dashboards, comprehensive reports, narrative stories.

Problem Solving :- Developing solutions to challenges encountered during data analysis.

Data cleaning and pre processing :- Proficiency in data cleaning and preparing data for analysis.

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

Description of the managerial skills acquired :-

Project Management :- Coordinating tasks, setting goals and ensuring the timely completion of the data analytics.

Team Collaboration :- Working effectively in a group setting, delegating tasks, and fostering a collaborative environment.

Leadership skills :- Taking initiative, guiding the team, and making decisions to achieve project objectives.

Time management :- Prioritizing tasks, meeting deadlines, and efficiently allocating resources.

Problem solving as a team :- Addressing challenges collectively and finding solutions through group discussions and collaboration.

Adaptability :- Being flexible and adapting to changes in project scope or requirements.

Quality Assurance :- Ensuring the accuracy and quality of the data analytics project deliverables produced by the team.

feedbacks and Improvement :- Providing constructive feedback to team members and actively participating in continuous improvement processes .

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

Description of the communication skills acquired :-

Technical communication :- Effectively conveying complex data analytics concepts and findings.

Presentation skills :- Creating and delivering engaging presentations to communicate insights, dashboard, visualizations and projects.

Team collaboration :- Collaborating with team members to share information, discuss project process and updates.

Written communication :- Crafting clear and concise reports, documentation and emails related to data analytics processes.

Conflict Resolution :- Addressing and resolving conflicts within the team to maintain a positive and productive environment between team members.

feedback delivery :- Providing constructive feedback to peers, mentor and trainers and receiving feedback, fostering a culture of continuous improvement.

Clarity in instructions :- Clearly communicating project tasks, goals and expectations, roles to every team member.

Describe how could you enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Reflecting on my experience in data analytics at Smartbridge Internz, I've identified key areas for enhancing my abilities in group discussions, team participation and leadership.

To improve my contributions in group discussions, I aim to actively listen to others, ask insightful questions and share my opinions, perspectives clearly and effectively. As a team member, I plan to strengthen collaboration by proactively offering support, leveraging my technical skills and embracing different viewpoints of team members. Lastly to enhance my leadership capabilities, I plan to focus on taking initiative, creating a positive team environment, and effectively coordinating team activities. Through these measures, I am committed to continuous growth and excellence in my role within the team.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

Description of the digital technologies :-

Power Bi :- Power bi (Business Intelligence) tool is used for managing and analyzing data. It integrates reporting, modeling analyses, dashboards, stories and event management to efficiently organize data for effective decision making.

Python :- Python is a high-level, interpreted, interactive and object-oriented scripting language. It is used for server-side web development, software development, and system scripting, task automation, data analysis and data visualization.

Visual studio code :- Visual studio code aka vs code is a source code editor software developed by Microsoft for windows, and Macos. It is used for program code editing like debugging, tasks running and version control, code refactoring.

Get Bootstrap :- Get bootstrap is a free , open source front - end development framework for the creation of websites and web applications . It also enables designers and developers for mobile - first applications.