



SHORT-TERMINTERNSHIP



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This page content gives an idea only, which topics have to write.

1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A Introduction of the Organization
- B Vision, Mission, and Values of the Organization
- C Policy of the Organization, in relation to the intern role
- D Organizational Structure
- E Roles and responsibilities of the employees in which the intern is placed.
- F Performance of the Organization in terms of turnover, profits, market reach and market value.
- G Future Plans of the Organization.

3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

Chapter -01 : Executive Summary

* Learning Objectives:-

- * Learn how to obtain, clean / process and transform data
- * Learn how to use appropriate models of analysis based on the quality of input.
- * Learned how to apply computing theory, language and Algorithms as well as Mathematical statistics Models to formulate and use data analysis
- * Learned how to perform well in a group
- * Learned how to interpret data findings effectively to any audience visually and in written forms.

* Learning Outcomes:-

- * Developing relevant programming abilities
- * Abilities to build and access data based Models
- * Able to create some visualizations

Brief Description about Smart Bridge

"Smart Bridge" an ed-tech organization with a vision to bridge the gap between academic and industry.

Chapter - 02 :- Overview of the Organization

- A. "Smart Interns" is an ed-tech organisation with a vision to bridge the gap between academic and industry experimental learning programs on emerging technologies are building skilled entry
- B. "Smart Interns" is in mission to build technology committee in a academic to encourage students towards innovations, since inception they trained thousands of students and faculty.
- C. "Smart Interns" restrict access to interns, who are not restricted in APSCHE-LMS they want to maintain a respect to environment for everyone.
- D. "Smart Interns" organization almost trained 7 lakhs for student, 3 lakhs for interns and they have done 2000+ projects
- E. Roles of the employees are to assist and contribute to the team
- F. If employees many and has a good performs in terms of market.

Chapter - 03:- Internship part

Internships are valuable way to gain new and knowledge . This internship is a university provided internship . It is a paid internship this internship learned how to apply computing theory language and algorithms as well as mathematical statistics models to formulate and use data analysis

Skills :-

- * Data cleaning and preparation
- * Data Analysis Techniques
- * Data visualization
- * Creating visualization Dashboard
- * Creating visualization Report
- * Creating story telling
- * Best practices
- * Data literacy
- * Modifying Templates.

CHAPTER 5: 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.)

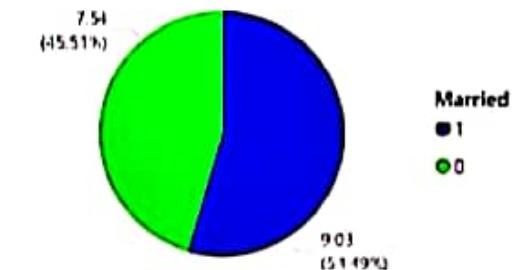
Description of work environment

The internship at Smart Bridge has been a transformative experience, equipping me with practical skills in Data Analytics and a deep understanding of the role of power BI cognos Analytics in HR industry. The hands on experience & exposure to real world projects has not only sharpened my communication skills and project management skills.

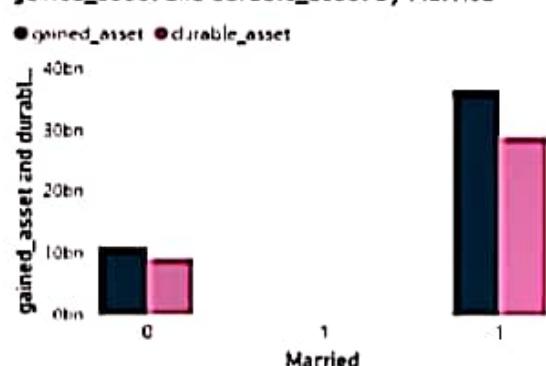
Team members exhibited mutual support and team work, contributing to a harmonious relations. Overall, the internship provided a comprehensive experience in Analytics with in a well-organized and supportive work environment.

Depression and Economic Status in Rural Communities

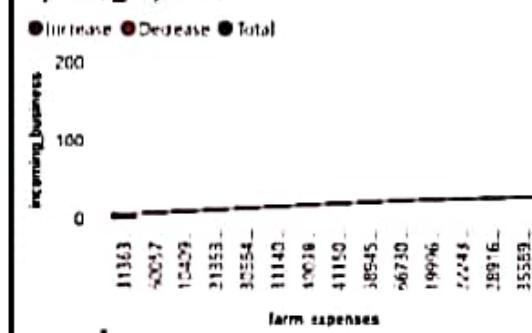
Average of education_level by Married



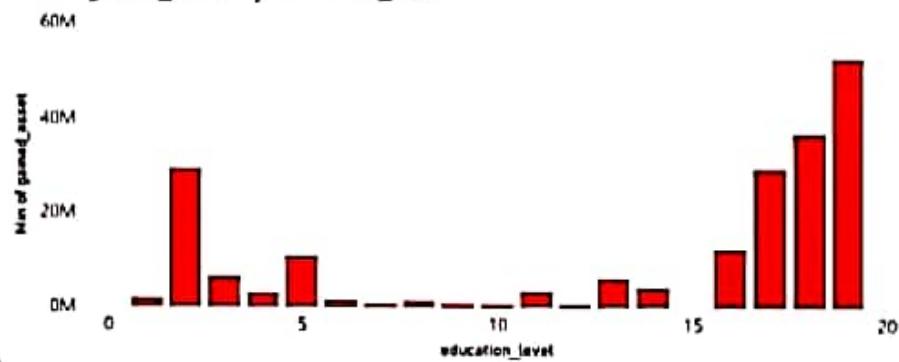
gained_asset and durable_asset by Married



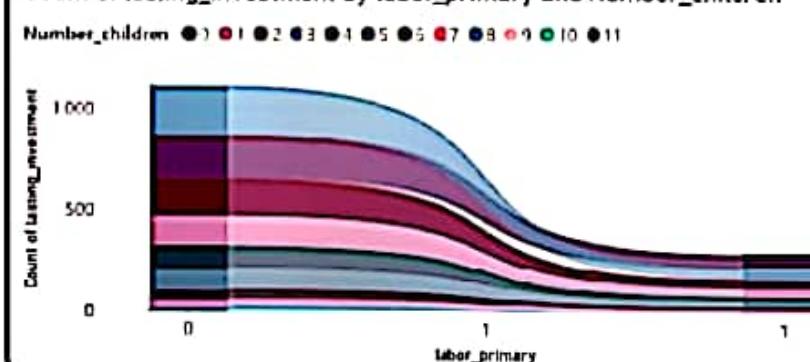
incoming_business and incoming_no_business by farm_expenses



Min of gained_asset by education_level



Count of lacting_investment by labor_primary and Number_children



Depression and Economic Status in Rural Communities

29M

Median of gained_as...

0.42

Standard deviation of ...

100M

Max of farm_expenses

437.28T

Variance of
incoming_agricultural

Sum of depressed,
Number_children and Age

● Sum of depressed ● Number_c...

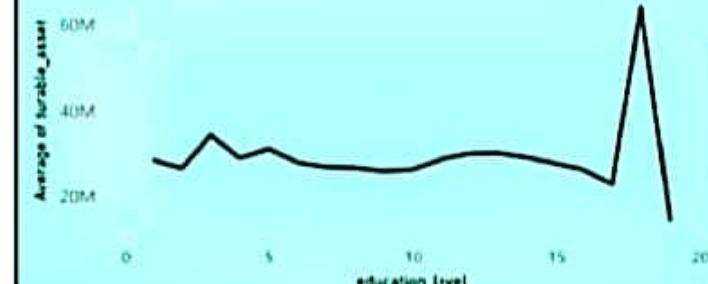
● Age



Rural areas often face economic hardships, including lower income levels, higher poverty rates, and fewer employment opportunities. These economic struggles can exacerbate stress and contribute to higher rates of depression. Depression is more prevalent in rural communities compared to urban areas. Factors such as economic instability, social isolation,

living_expenses	Number_children	Sum of Number_children ²
99295282	1	1
98361063	3	9
97425834	5	25
97425832	1	1
96092218	0	0
96092218	1	1
96092218	4	16
95291452	3	9
94223757	4	16
93916788	6	36
Total		4091

Average of durable_asset by education_level



ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Started smart learning Data Analytics Course.	Learned about current Business	
Day -2	Attended to live session with positive enthusiasm attitude	Learned about overview of Business Intelligence	
Day -3	Attended to live sessions to learn new concepts	Learned about overview of Data analytics	
Day -4	logged into the zoom live session	Learned about overview of Data visualization	
Day -5	Learn how to create an power BI cognos Account	Create power BI Cognos account	
Day -6	Revised all the previous class.	Check the all covered concepts.	

WEEKLY REPORT
WEEK-1 (From Dt. 3.7.24 to Dt. 5.7.24.....)

Objective of the Activity Done:

Detailed Report: Introducing to power BI
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 modules on power BI including its performance, key features and capabilities
- * Learned about the various types of data source that can be connected to power BI
- * Developed a foundational understanding of power BI
- * Created a simple report showing basic visualization such as bar charts and line graphs.

ACTIVITY LOG FOR SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day - 1	Registered into power BI cognos Analytics program	verified my power BI cognos Account	
Day - 2	Launched the Cognos Analytics cloud Trail	logged into a power BI cognos account	
Day - 3	Overview of power BI cognos	learnt what is power BI cognos	
Day - 4	Overview of the power BI cognos portal	learnt about power BI cognos portal	
Day - 5	Attended to live session with a positive attitude	learnt how power bi cognos portal work.	
Day - 6	Revised all the previous concepts.	Got clean cut info about power BI portal	

WEEKLY REPORT

WEEK - 2 (From Dt... 8/7/24 to Dt ... 12/7/24....)

Objective of the Activity Done:

Data importing & modeling
Detailed Report: This week dedicated to mastering data importing and modeling with it power BI explored different data connectors available in power BI, such as excel, SQL, database and online services

- * Learning about the ETL process with in power BI
- * practiced data modeling techniques , including creating relationships between tables , using DAX , functions and designing calculated columns
- * Successfully imported datasets from multiple source into power BI
- * used DAX to create calculated columns and measures for enhanced analysis.
- * Built a robust data model with well-defined relationships.

ACTIVITY LOG FOR THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Downloaded Sample Superstore.xls file	learnt how to upload the data	
Day - 2	prepared data for visualization	learnt how to prepare data	
Day - 3	Saved prepared data for Superstore data module	learnt what to save data module	
Day - 4	Features of power BI	learnt what are the features	
Day - 5	Overview of data exploration	learnt about data exploration	
Day - 6	Revised all the previous concepts	Data exploration and about power BI	

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

Objective of the Activity Done:

Detailed Report:

Data visualization techniques

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 dashboards with slicers, filters and drill-throughs
- * Learned best practices for choosing appropriate visualization for different data types and insight.
- * Designed a comprehensive dashboard featuring key metrics using a mix of visuals
- * presented the dashboard to peers and feedback.

ACTIVITY LOG FOR FOURTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Created a bar chart visualization	learnt how to prepare bar chart	
Day - 2	Created a pie chart visualization	learnt how to prepare pie chart	
Day - 3	Created a bubble chart visualization	learnt how to prepare bubble chart	
Day - 4	Created a area chart visualization	learnt how to prepare area chart	
Day - 5	Created a line chart visualization	learnt how to prepare line chart	
Day - 6	Practised all the visualizations	learnt how to prepare visualizations	

WEEKLY REPORT
WEEK-4 (From Dt. 20/7/24 to Dt ... 26/7/24...)

Objective of the Activity Done:

Detailed Report:

Advanced data analysis DAX

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.
- * Working on a case study that required creating complex measures to calculate year-over-year growth and rolling averages.
- * Applied time intelligence functions to analyze trends over time.
- * Improved the accuracy and efficiency of data models using advanced DAX.
- * Developed proficiency in writing complex DAX expressions.

ACTIVITY LOG FOR FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Overview of the power BI report	learnt about power-BI report	
Day - 2	presented data in report format	learnt about presenting data	
Day - 3	created a report using the visualization	learnt how to create a report	
Day - 4	created a report using visualization	learnt how to create a report.	
Day - 5	created another report.	learnt how to create report	
Day - 6	Revised and practiced all concepts	learnt report	

WEEKLY REPORT

WEEK - 5 (From Dt... 20/07/2021 To Dt ... 02/08/2021)

Objective of the Activity Done: Real-world case study.

Detailed Report: This week focused 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, hot and areas for improvement
- * Created a comprehensive sales dashboard that highlighted crucial business insights
- * Received positive feedback from mentor on the practical application of power BI skills

ACTIVITY LOG FOR SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day - 1	Created a dashboard with Data Source Superstore Data	learnt how to create dashboard	
Day - 2	Modified with some of the parameters	Edited Dashboard	
Day - 3	Created another dashboard with visualization.	learnt how to add visualization.	
Day - 4	Inserted mapchart, Donut chart	learnt how to add visualization	
Day - 5	Inserted word cloud to the dash board.	How to insert visualization	
Day - 6	Revised and practical all concepts	learnt how to create dashboard.	

WEEKLY REPORT
WEEK- 6 (From Dt. 5/8/24 to Dt. 09/08/24)

Objective of the Activity Done:

Reporting optimization 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
- * Implemented incremental data refresh to improve report load times
- * Explored best practices for managing large dataset and reducing memory usage
- * Optimized existing reports to load faster and handle large datasets
- * Applied techniques to reduce the size of data models without losing critical information

ACTIVITY LOG FOR SEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Created a line and column chart visualization	learnt how to created line & column	
Day - 2	created a waterfall visualization	learnt how to create a waterfall	
Day - 3	created a Hierarchical bubble chart	learnt how to create Hierarchical bubble.	
Day - 4	created another report	learnt how to create a report	
Day - 5	created a report using visualization	learnt how to create report	
Day - 6	Revised and practised and concepts	learnt reports	

WEEKLY REPORT
WEEK - 7 (From Dt. 12/8/24 to Dt. 16/8/24....)

Objective of the Activity Done: Data Analytics & Project work.

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 small intern, cleaning & transforming the data

* And building a data model our team focussed on identifying key metrics trends and patterns that could drive business decision

* The initial reports and dashboards, were created to visualize these insights, using the skills & techniques learned over the past six weeks

ACTIVITY LOG FOR EIGHT WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Overview of power-BI story	learnt about story	
Day -2	Created a story in portal	learnt how to create power-BI story	
Day -3	created a guided Journey story.	learnt about guided journey story	
Day -4	Create a slide show story	learnt how to create slide show	
Day -5	created 6 stories in story	learnt about types of story	
Day -6	Revised and practical all the concepts	learnt about story creation	

WEEKLY REPORT

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

Objective of the Activity Done:

project work - finalization

Detailed Report:

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

- * We focussed on enhancing the visual appeal interactive elements & ensuring the data was accurately represented.
- * The week culminated with a presentation to the Smart Intern team, where we showcased our findings explained the method logics used, and demonstrated how the insights could be applied to solve real business problems.

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 & interpreting complex dataset
- * Statistical Analysis: understanding and applying statistical methods to derive insights
- * Data visualization: Mastery in creating compelling visualizations for effective communication of data
- * Analytics tools proficiency: proficiency with web based tools like MS Excel, Power BI, Google Colab for analytics & visualization
- * Programming language: knowledge & expertise in python programming language
- * problem solving: developing solutions to challenges encountered during data analysis
- * Data cleansing & processing: proficiency in data cleansing 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 :- co-ordinating tasks, setting goals & ensuring the timely completion of the data analytics project.
- * Team collaboration :- working effectively in a group setting, delegating tasks & fostering a collaborative environment.
- * Leadership skills :- taking initiative, guiding the team, & making decisions to achieve project objectives.
- * Time management :- prioritizing tasks, meeting deadlines, & efficiently allocating resources.
- * problem solving as a team :- addressing challenges collectively & finding solutions through group discussion (&) collaboration.
- * Feedback & Improvement :- providing constructive feedback to team members & 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 Required

- * Technical communication: Effectively conveying complex data analytics concepts & findings.
- * Presentation skills: Creating and delivering engaging presentations to communicate insights, dashboard, visualization and projects.
- * Team collaboration: Collaborating with team members to share information, discuss project progress & updates.
- * Written communication: Crafting clear and concise reports, documentation and emails related to data analytics process.
- * Conflict Resolution: Addressing and resolving conflicts within the team to maintain a positive & productive environment between team members.

* Feedback Delivery:- providing constructive feedback to peers, mentors and trainees and RECEIVING Feedback,

∴ Fostering a culture of continuous.

* Clarity in instructions:- clearly communicating project tasks, goals & expectations, Roles to every team members

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 SmartIntech, I've identified key areas for enhancing my abilities in group discussions, team participation and leadership.

To improve my contributes in group discussions, I aim to actively listen to others, ask insightful questions and share my opinions, perspectives, clearly & effectively. As a team members 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 co-ordinating 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)

By integrating data with power-BI we can analyze large set of data easily and can predict the future consequences for any events. It takes a lot of time to analyze data manually but through Power-BI we can easily sort lot of data within seconds. It is very easy to understand data in visualization such as graphs, Bar diagram, line charts; pie charts, map charts etc..

The power-BI company was growing fast and expected to expand four times it's size by 2030; owing to further advancements in data analytics is the analysis of huge data volumes generated by connected devices.

The future of data analytics looks bright with emerging technologies such as artificial intelligence, machine learning and block chain these technologies have the potential to transform data, leading to new insights and discoveries that were previously impossible.