SHORT-TERMINTERNSHIP

Dr. LANKAPALLI BULLAYYA COLLEGE
VISAKHAPATNAM

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.

Contents

Chapter - 1 Executive Summary

Learning Objectives

* Learn how to obtain, clean/process and transform data
* Learn how to use appropriate models of analysis access 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 group
* Learned how to interpert data findings effectively to any audience visually and in written formats.

Learning outcomes :

* Developing relevant programming abilities
* Abilities to build and acuss data-Based models
* Able to create some Visualizations

Brief Description About Smart Bridge :

"Smart Bridge" is an Ed-Tech organization with a vision to brige the gap between Acadamic and Industry.

Activities :

I have done some Activities during my internship such as gathering, cleaning and organizing data for given superstore Dataset in IBM cognos Analytics

Chapter-2 : Overview of the Organization

A. "Smart internz" is an Ed-Tech organisation with a vision to bridge the gap between academic and Industry. Experential learning programs on emerging Technologies (IoT, AI, ML, Data Science, Robotics) are building skilled - entry.

B. "Smart Internz" is in mission to build technology communities in academic to encourage students towards Innovation Since, Inception, They trained thousands of students and faculty.

C. "Smart Internz" restrict access to interns, who are not restricted in APSCHE - LMS. They want to maintain a Respectful environment for everyone.

D. "Smart Internz" Organization almost trained 7 Lakhs plus students, 3 Lakhs Interns and they have done 2000+ projects.

E. Roles of the Employees are to Assist and Contribute to the team.

F. It Employees many and has a good performance in terms of market value.

G. In a Mission to build Technology communities in Academic to encourage students towards Innovation & Enterprenewship

Chapter-3 : Internship Part

Internships are Valuable way to gain new found Knowledge. This Internship is a University - provided Internship. It is a paid Internship this Internship are structured and with a "Learning Agenda". All potential Interns must and should attend to every class so that they can learn new things This is the main Agenda of the Smart Internz Organization

Skills :

* Data cleaning and preparation
* Data Analysis Techniques.
* Data Visualization
* Creating Visualization Dashboard.
* Creating Visualization Report
* Creating Story telling
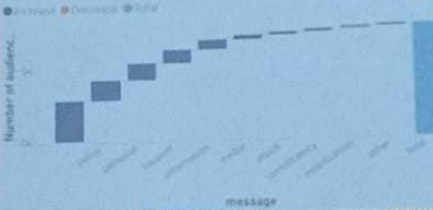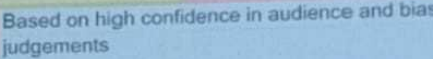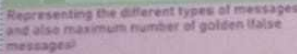* Best practices
* Data literacy
* Modifying Templates

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 smartBridge has been a transformative experience, equipping me with practical skills in Data- Analytics and a deep understanding of the role of IBM cognos Analytics in the industry. The hands on experience & exposure to real world projects has not only sharpened my technical abilities but has also be honed my communication skills and project management skills. The work Environment fostered a collobrative atmosphere with clean task- roles, well defined protocols & structured procedures. The Facilities were equipped with necessary tools for data Analytics. Team members exhibited mutual support & team work, contributing to a harmonious relations. Overall, the internship provided a comprehensive experience in data Analytics within a well- organized and supportive work Environment.

Representing the Audience Judgement

Number of message by bias

Number of political social posts by message

Representing the different types of messages and also maximum number of golden ifalse messages!

Based on high confidence in audience and bias judgements

Maximum number of audience and golden ifalse messagel

different types of message

message

Report :-

Political social media posts

Representing the different types of messages and also maximum number of golden false messages!

There are 2824 Different Types of Messages in Golden Category.
.Policy tend to have a Greater Impact then Other Messages
.In this this golden category false is 100% and truth is 0%

Maximum number of audience and golden false message!

This graph represents the max number of peoples from audience and Max number of golden standards

. Nearly 98.5% of the audience received the golden messages

.Only 38 individuals did not receive a non-golden message

Based on high confidence in audience and bias judgements

. The total audience confidence count is 7824

. The message of policy have high increment audience

.Mobilization and other messages has slight difference and receive fewer

VOTE!

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Started Smart Intern Data Analytics Course	Learned about current Bussiness	
Day – 2	Attended to live Session with positive enthologim attitude	Learnt about Overview of Bussiness Intelligence	
Day – 3	Attended to live sessions to learn new concepts	Learnt about overview of Data analytics	
Day – 4	Logged into the zoom live session	Learnt about overview of Data visualization	
Day – 5	Learn How to Create an IBM cognos Account	Create IBM cogros account	
Day – 6	Revised all the Previous Class	Check the all covered concepts.	

Objective of the Activity Done: Introducting to power BI 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 sension on the internship objectives and deliverables.

• Completed introductory models on power BI, including its interface, 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 chats and line graphs.

• participated in a workship on basic data cleaning and transformation techniques.

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Registered into IBM Cognos Analytics program	Verified my IBM cognos Account	
Day – 2	Launched the cognos Analytics cloud Trail	Logged into a IBM cognos account	
Day – 3	Overview of the IBM cognos	Learnt what is IBM Cognos	
Day – 4	Overview of the IBM Cognos portal	Learnt about IBM Cognos portal	
Day – 5	Attended to live Session with a positive attitude	Learnt how IBM cognos portal work	
Day – 6	Revised all the previous Concepts.	Got clearcut Info about IBM Portal.	

Objective of the Activity Done: Data importing and modeling

Detailed Report: This week dedicated to mastering data importing and modeling within powerBI.

Explored different data connectors available in powerBI, such as Excel, SQL, database and online services.

learning about the ETL (Extract, transform, load) process within powerBI.

practiced data modeling 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.

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Downloaded Sample Superstone. xls file	Learn how to upload the data	
Day – 2	Prepared data for Visualization	Learnt how to prepare data	
Day – 3	Saved prepared data for Superstone 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	

Objective of the Actuvity Done:

Data Visualization techiques.

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-throughs.

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

* Designed a comprehensive dashboard featuring key matrics using a mix of Visuals.

* Implemented interacitivity through slicers and filters to allow users to Explore the data dynomically.

* presented the dashboard to peers for feedback.

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	

Objective of the Activity Done:

— Advanced data Analysis with DAX

Detailed Report:

This week was dedicated to deepending 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.

* 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.

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 create line and column	
Day – 2	Created a waterfall Visualization	Learnt how to create a Waterfall	
Day – 3	Created a Hierrachical bubble chart	Learnt how to create line Chart Hierarichal Bubble	
Day – 4	Created a line chart for forecasting	Learnt how to Create line chart	
Day – 5	Overview of cognos Dashboard	Learnt what is power BI dashboard	
Day –6	Revised and practical all the concepts	Learnt about more Visualizations	

Objective of the Activity Done:

Real-world case study, sales Analytics

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 (kpis) 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 storytelling techiques to communicate findings effectively.

• Received positive feedback from mentor on the practical application of power BI skills.

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Created a dashboard with Data Source Superstone 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 map chart, Donout chart.	Learnt how to add Visualization	
Day – 5	Inserted world cloud to the dashboard	How to Insert Visualization	
Day – 6	Revised and practical all concepts.	Learnt how to create dashboard.	

Objective of the Activity Done:

Reporting optimization and tuning

Detailed Report:

This week focused on optimizing power B.I. 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 techiques to reduce the size of data models with out losing critical information.

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 another Report	Learnt how to Create a Report	
Day – 5	Created a Report using Visualization	Learnt how to Create a Report	
Day – 6	Revised and practised all concepts.	Learnt Report.	

WEEKLY REPORT

WEEK-7 (From Dt...12.8.24........ to Dt.....16.8.24..........)

Objective of the Activity Done: Data analysics and project-work - Visualigation.

Detailed Report: This week marked the begining of the project phase.

- Started by defining the project scope, objectives and deter, deliverables.
- The project involved analyzing a dataset provided by smart Interng, cleaning and transforming the data, and building a data model.
- our team focused on identifying key metrics trends and patterns that could shine business decisions.
- The fulfial reports and dashboards were created to visualize these insights, using the skills and techniques learned over the part six weeks.

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 Scenes in Story	Learnt about types of Story	
Day – 6	Revised and practiced all the concepts.	Learnt about Story Creation	

WEEKLY REPORT

WEEK-8 (From Dt.....19.1.8.124............ to Dt......23.12.124...............)

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 methodlogies used, and demostrated how the insights could be applied to solve real business problems.

• The project was well recived, marking a successful conclusion to the internship.

Description of the technical Skills Acquired

*) Data Analysis : Proficiency in examining and 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, PowerBI, google Colab for analytics & Visualization

*) Programming Language : Knowledge & Expertice in Python Programming language.

*) Visualization Generation : Skills in developing interactive Dashboards, comprehensive Reports, narrative stories in Cognos Analytics.

*) Problem Solving : Developing Solutions to challenges encountered during data analysis

*) Data cleansing and Reprocessing : Proficiency in Data cleansing & Preparing data for analysis

Description of the Managerial Skills Acquired

*) Project Management : Coordinating 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 discussions (&) collaboration.

*) Adapatability : Being flexible (&) adapting to changes in project scope or requirements.

*) Quality Assurance : Ensuring the Accuracy & quality of the data analytics project deliverables produced by the team.

*) Feedback & Improvement : Providing constructive Feedback to team members & actively participating in continuous improvement processes

Description of the Communication Skills Acquired.

*) Technical Communication: Effectively conveying Complex data analytics Concepts & Findings.

*) Presentation Skills : Creating & delivering engaging Presentations to Communicate insights, dashboard, Visualization & Projects

*) Team Collobration : Collobrating with team members to share information, discuss project progress & updates.

*) Written Communication: Crafting clear & Concise Reports documentation and emails related to data analytics processes.

*) Conflict Resolution : Addressing & Resolving conflicts within the team to maintain a positive & productive environment between team members.

*) Feedback Delivery : Providing constructive feedback to peers, Mentors & Trainers and Receiving Feedback, ∴ Fostering a Culture of Continuous improvement.

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

Describe how could you could 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 interns, 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 & effectively. As a team members, I plan to strengthen colloboration 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 eActivities. Through these measures, I am committed to continuous growth and excellence in my role within the team.

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 bet 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 its size by 2030; owing to further advancements in data analytics is the analysis of huge data volumes generated by connected devices.

The Further of data analytics loves 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