SHORT-TERMINTERNSHIP

Dr. LANKAPALLI BULLAYYA COLLEGE
VISAKHAPATNAM

Acknowledgements

I would sincerely like to thank APSCHE for providing me with this short-term immersion Internship which helped me gain practical experience and knowledge on data Analytics.

I thank our respected principal Sir Dr. G.S.K. Chakravarthy for giving me this wonderful opportunity

I would also like to thank our Head of the Department Mr. A.K.

for being a wonderful mentor throughout my project.

I thank Almighty / god, my parents and my friends without whose help this project would not have been completed.

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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.

Executive Summary

This report presents a summary of my internship experience focussed on improving retail success and driving sales within the retail sector.

The goal of this internship was to gain potential insights into retail operations, customer engagement strategies and sales optimization techniques.

Understanding retail operations helps to develop a comprehensive understanding of retail operations and sales processes. It gained hands-on experience in managing store layout, inventory control and daily sales, operations, ensuring a seamless customer experience.

During the internship period, I was involved in a wide range of activities that contributed to the overall success of the retail operations:

Analyzed sales data to identify trends and helped to create reports that informed decision making process and team collaboration.

Overall, the internship provided valuable insights into the retail sector, offering practical experience in driving sales and improving customer engagement.

Chapter-2 :- Overview of the organization

Smart Bridge is a platform that offers virtual internship to the students. The platforms goal is to prepare students for the job marked by establishing a cooperative relationship between industry Academic. Smart Bridge partners with companies such as google to offer virtual internships. The internships provide students with hands on experience with the latest technologies and enable project based learnings Smart bridge's flagship event is the "Summer internship program". The program develops students skills in emerging technologies i.e.,

1.) Artificial Intelligence

2.) Machine learning

3.) Internet of things

Organization's objective :-

Smart Bridge's main objective is to bridge the existing gaps between prevailing industry standards and what the academics offers to the graduates while passing out of university Smart bridge offers suitable skill development and training to the young talent before on boarding their first job.

Their skill development programs are designed consid-ering 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 these future. Therefore the main objectives of smart bridge is providing internship for every students promote industry approved proffesional electives become a talent factors of India by 2026.

Chapter-3: Internship Part

Description of the Activities/Responsibilities undertaken:

- Registering with apsche smartbrintern & enrolling for Smartbridge's Data analytics course i.e. live training sessions as per the Pre-scheduled training calender.
- Participating weekly quiz & completing weekly Assignment with respect to data Analytics.
- Team formation & selection of project topic "Student performance Analysis" on "Global Malnutrition.
- Gathering, cleansing & Analyzing the Excel data sets of the project topic on "A student in Global malnutrition Analysis".
- Attending project - Mentoring sessions and designing and developing interactive dashboard, story, Report on the project topic using IBM cognos Analytics. web integration of above project deliverables with team's webpage using visual studio code, drafting a project video demonstration and preparation of final report.

Submission of team project via uploading the project files in Github repository of the team.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 3/7/24	Introducing of data analysis and interpreted data visualization	Analysis of the topic	
Day - 2 4/7/24	Agenda and understanding consumers	Clear view of business problem and its solution	
Day – 3 5/7/24	Types of analytics, proves and download of power BI	Clear Analysis 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 Data Analytics and Power BI

Detailed Report: In the first week, we where introduced to the fundamentals of data analytics, emphasizing the role of data - driven decision - making in Modern businesses. The sessions covered the basics of data analysis, Different types of data, and the importance of data visualization.

We also explored power BI, understanding its inferface, features, and how it integrates with other Microsoft products.

The week concluded with a hands - on session on loading and transforming data in power BI.

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 sales 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 practicality on data usage.	
Day –6			

WEEKLY REPORT

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

Objective of the Activity Done:

Data transformation and Modeling

Detailed Report:

The second week focused on data transformation and modeling within Power BI.

We learned to clean, reshape, and prepare data using Power Query Editor. The training covered essential functions like filtering, merging, and appending datasets.

Additionally, we were introduced to data modeling concepts such as relationships, cardinality, and data hierarchies.

The practical sessions helped reinforces these concepts by allowing us to create and manage data models effectively.

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 in DA	
Day - 2 16/7/24	Differentiation between storyboard, Dashboard and report	Learned the differenced about contents to represent.	
Day – 3 18/7/24	Data structuring and its usage with power BI	Learned the usage of data instructure	
Day – 4 19/7/24	Revised on topics. as far completed.	clear view with the usage of powerBI	
Day – 5			
Day –6			

WEEKLY REPORT

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

Objective of the Actuvity Done: Data visulization Techniques

Detailed Report: In the third week, the Emphasis was on data visualization techniques using power BI.

We Explored various types of charts, graphs, and maps that can be created in power BI to visualize data insights.

The sessions included best practices for selecting the right visualizations based on the type of data and the message we want to convey. We also lerned about customizing visual Elements, using themes, and Enhancing reports with interactive featur-es like slicers and drill-throughs.

ACTIVITY LOG FOR THE FOURTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In - Charge Signature
Day – 1 22/7/24	Researched the additional information	Additional info 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 visualisation part.	
Day – 4 25/7/24	DAX and DAX functions	clear view on DAX function	
Day – 5 26/7/24	All the functions present in power BI	Learned about the function to apply.	
Day –6			

WEEKLY REPORT

WEEK-4 (From Dt...22/7/24..... To Dt...26/7/24.....)

Objective of the Activity Done: Advanced Analytics and DAX

Detailed Report: Week four delved into advanced analytics and Data Analysis Expression (DAX) in power BI.

We learned how to create calculated columns, measures, and custom tables using DAX. The training covered complex DAX functions such as time intelligence, filtering, and aggregation.

We also Explored advanced analytical techniques like trend analysis, forecasting, and what-if scenarios.

The week ended with Excersises to build dynamic reports using DAX-driven insights.

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 max factor in DAX	learned about expressions and functions in DAX.	
Day - 2 30/7/24	More about filter functions in DAX	clear view 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	gave the assessment	
Day –6			

WEEKLY REPORT

WEEK-5 (From Dt. 29/7/24 To Dt. 2/8/24)

Objective of the Activity Done:

Power BI Service and collaboration

Detailed Report:

The fifth week covered the Power BI service and its collobrations features.

We learned how to publish reports to the power BI service, share dashboards and collaborate with team members in real time. The sessions emphasized data security, row-level security (RLS), and managing workspaces.

We also explored power BI's integrations with other microsoft tools. like Excel, Teams, and Share point, making it easier to collaborate and share insights across the organization.

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 AI report	clear view on optimization	
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 evaluation application	
Day – 4 8/8/24	Application of technique to size data model	learned about sizing data model.	
Day – 5 9/8/24	learned about view 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:

Best practices and Industry applications

Detailed Report:

In the final week of internship classes, we focused on best practices in data analytics and real-world applications of Power BI accross Various industries.

We discussed key strategies for optimizing data models, Enhancing report performance, and maintaing data governance.

The sessions also included case studies showcasing how companies use Power BI for Business intelligence, sales analysis, financial reporting, and operational Efficiency. the week wrapped up with an overview of the upcoming project work.

ACTIVITY LOG FOR THE SEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In - Charge Signature
Day – 1 12/8/24	Formation of team	clear view on team	
Day - 2 13/8/24	Project scope and objectives	clear view on project assigned	
Day – 3 14/8/24	Aggregation of Public reports	Seggregation of data analysis	
Day – 4 15/8/24	configured Public	Reviewed self on dataset	
Day – 5 16/8/24	feedback on accessibility with Published reports	clear view on outcomes of reports	
Day –6			

WEEKLY REPORT

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

Objective of the Activity Done: Project work- data analysis and visualization.

Detailed Report: The seventh week marked the begining of the project phase.

We started by defining the project scope, objectives, and deliverables.

The project involved analyzing a data set provided by smart interns. 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 intial reports and dashboards where created to visualize these insights, using the skills and techniques learned over the past six weeks.

ACTIVITY LOG FOR THE EIGHT WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In - Charge Signature
Day - 1 19/8/24	Presenting actionable Insight	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	Alloting 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 mentor	
Day -6			

WEEKLY REPORT

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

Objective of the Activity Done: Finalization and presentation.

Detailed Report: In the final 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 dashboard-s by adding interactive elements and Ensuring the data was accurately represented. the week culminated with a presentation to the Smart Interns term, 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 be the intership.

CHAPTER 6: 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 IBM cognos Analytics in the industry. The hand son experience & 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 & 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.

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 datasets.
* 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.
* Visualization Generation :- skills in developing interactive Dashboards, comprehensive reports, narrative stories in cognes Analytics.
* Problem solving :- Developing solutions to challenges encountered during data analysis.
* Data cleansing and preprocessing :- proficiency in data cleansing & 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 project.
* Team Collaboration :- Working effectively in a group setting, delegating tasks, & fastening and 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 (&) collaboration.
* Adapatability :- Being flexible & adapting to changes in Project slope or requirements
* Quality Assuarance :- Ensuring the accuracy & quality of the data analytics project delieverables produced by team.
* feedback & Improvement :- providing constructive feedback to team members & actively participating in continuous improvement process.

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 & findings.
* **Presentation Skills** :- Creating & delivering engaging presentations to communicate insights, dashboards, Visualizations & projects.
* **Team collaboration** :- collaborating with team members to share information, discuss project progress & updates.
* **Written Communication** :- Grafting clear & concise reports, documentation and emails related to data analytics processes.
* **Conflict Resolution** :- Addressing & Resolving conflicts within the team to maintain a positive and production environment between team members.
* **Feedback Delivery** :- Providing constructive feed back to pers, mentors & trainers and receiving feed back, ∴ fostering a culture of continuous improvement.
* **Clarity in instructions** :- clearly communicating Project, tasks, goals & expectations, Roles to every team member.

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 the data analysis at smartbridge interns, I've identified key areas for enhancing my abilities in group discussions, team participation and leadership.

Team To improve my contributions in group discussions, I aim to actively listen to others, ask insight feel questions and share my opinions, perspectives clearly & effectively. As a team member, I plan to strengthen collaboration by practively offering support, liveraging my technical skills and embracing different view points of team member. 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

1) IBM Cognos Analytics :- IBM Cognos Analytics is a business intelligence tool to managing and analyzing data. It integrates reporting, modeling, analysis, dashboards, stories and event management to effectently organize data for effective Decision making.

~~2) Python~~ :-

2) video based learning :- Interactive videos, 360 degree views and live streaming.

3) Visual studio Code :- Visual studio Code AKA VS code is a source code editor software developed by Microsoft for windows, linux MacOS. It is used for Program Code editing like dubbing, task running and version control, code Refactoring.

4) Artificial Intelligence :- personalized learning, adaptive assessments and intelligent tutoring.

5) cloud Computing :- scalable infrastructure, Collabor-ative tools and remote access.

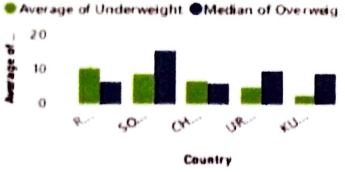
6) Gamification :- Engaging learning experiences, rewards and competation

PHOTOS & VIDEO LINKS

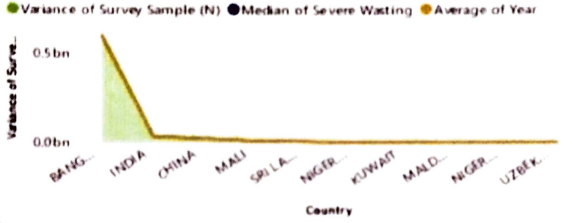
https://drive.google.com/file/d/18a9SWqVCfZSh7S_LeoASpWh58bV73BFU/view?usp=drivesdk

GLOBAL MALNUTRITION TRENDS FROM 1983-2019

Average of Underweight and Median of Overweight by Country

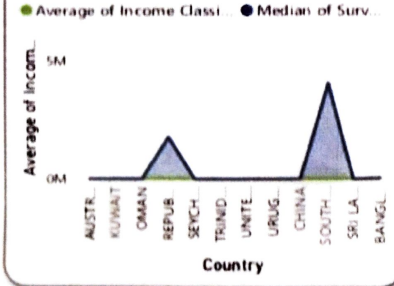


Variance of Survey Sample (N), Median of Severe Wasting and Average of Year by Country

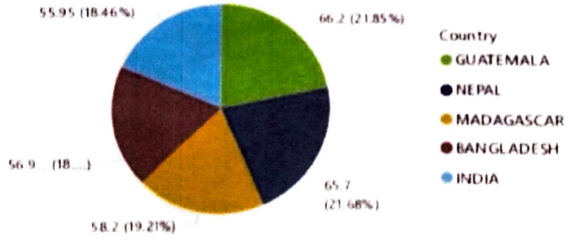


Median of LDC, Average of LIFD and Median of LLDC or SID2 by Country

Average of Income Classification and Median of Survey Sample (N) by Country

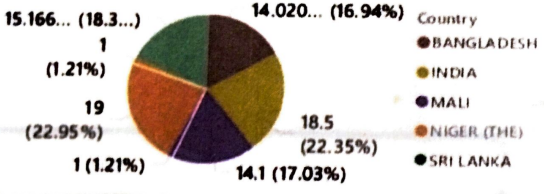


Average of Stunting and average of Severe Wasting by Country



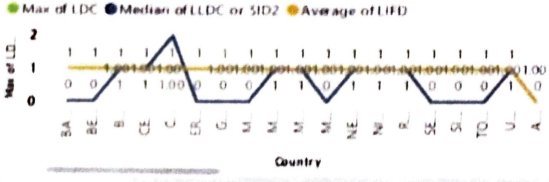
GLOBAL MALNUTRITION TRENDS

Average of Wasting and Min of LLDC or SID2 by Country



Average of U5 Population ('000s)

Max of LDC, Median of LLDC or SID2 and Average of LIFD by Country



1.89
Standard deviation of Severe Wasting

5.12
Average of Overweight

30.82
Average of Stunting

271.50
Variance of Underweight

1.19
Variance of Income Classification

Malnutrition is an imbalance between the nutrients your body needs to function and the nutrients it gets. It can mean undernutrition or overnutrition. You can be malnourished from an overall lack of calories, or you might have a protein, vitamin or mineral deficiency. there are 4 types of malnutrition: 1. Underweight , 2. Overweight 3. Severe Wasting 4.