

Summer Internship Presentation

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Programme-CSE

Semester-VII

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INTRODUCTION

Name of Organization : ZIDIO DEVELOPMENT

Role : Data Science and Analytics Intern

Type : Internship

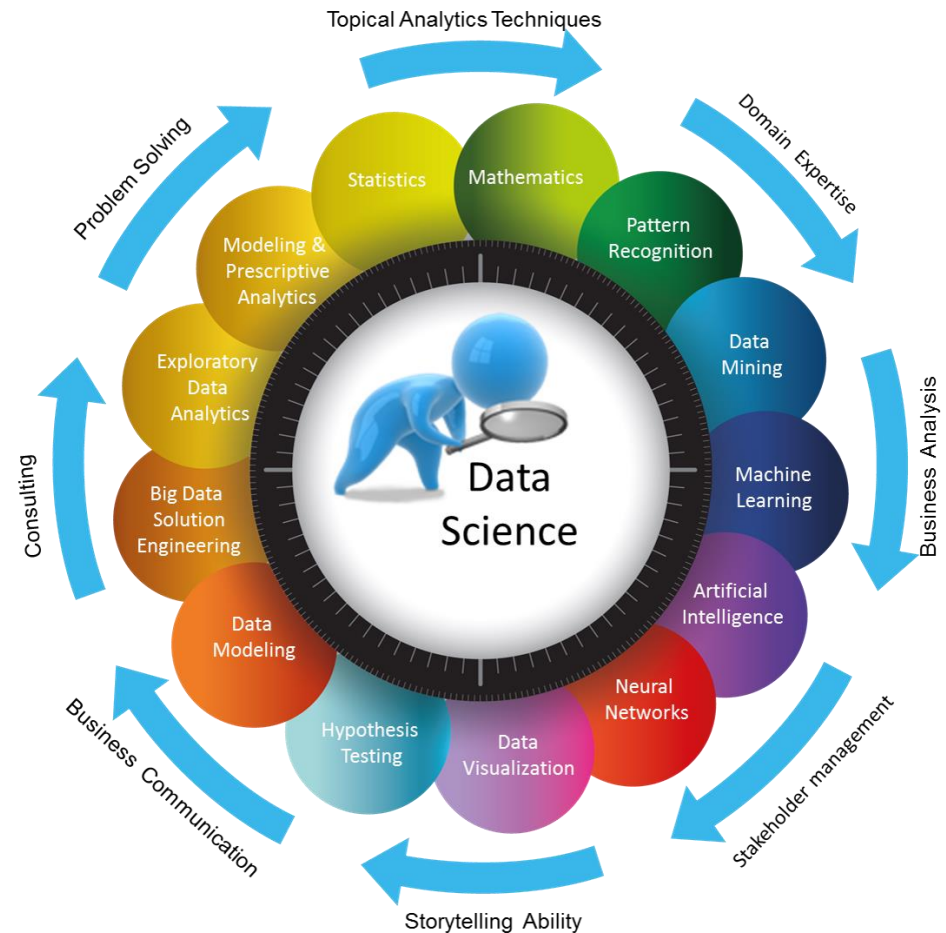
Mentor : Chandan Mishra

Duration : 2 months

Introduction to Data Science

What is Data Science?

- **Data science** is a multidisciplinary field that **uses statistical and computational methods to extract insights and knowledge from data.**
- Data Science is kinda blended with various tools, algorithms, and machine learning principles.



Introduction to Data Analytics

- Data analytics is **the process of analyzing raw data in order to draw out meaningful, actionable insights**, which are then used to inform and drive smart business decisions.



OBJECTIVE

- The Presentation is Mainly focus on showcasing my internship journey and my learnings in the organization.
- It describes my learnings and responsibilities undertaken.
- Main role that I have undergone during the internship is creating beautiful dashboards according to the vendors and clients requirements.
- Some of the tasks I involved are displayed here are::

Tasks During Internship

1. Created A visual Dashboard of employees and their complete info working in the organisation.
2. By using Toronto Dataset worked on Speech emotion recognition Project.
3. Worked on Creating a visual representation of Famous Ecommerce Site BLINKIT on various analysis.

1. Created A visual Dashboard of employees and their complete info working in the organisation.



- Using the data from HR Department Created a visual representation of the Data of employees worked in the organization.
- It involves data collection, cleaning, analyzing the data and apply the techniques.

Role of MS-Excel in HR Dashboard Creation

- **Data Collection:** Import and organize HR data in Excel (e.g., employee info, performance, payroll).
- **Data Cleaning:** Clean and prepare the data (e.g., remove duplicates, handle missing values).
- **Data Analysis:** Use formulas, pivot tables, and charts to analyze key HR metrics.
- **Data Visualization:** Create charts, graphs, and apply conditional formatting to highlight important insights.
- **Dashboard Creation:** Combine charts and tables into a single sheet to create an interactive HR dashboard.
- **Reporting:** Automate report generation and share the dashboard in various formats (e.g., PDF, Excel).

- Tools : Tableau, M s-Excel.
- Git hub Link : <https://github.com/Aravind1727/HR-Dasboard-Craetion.git>
- As a part of group we divide the work and created a dashboard.
- Duration of Project : 4 days
- By taking instructions from the mentor the project is created Successfully.

2. By using Toronto Dataset worked on Speech emotion recognition Project.



1. Understand the Dataset

- **Dataset Overview:** The Toronto Emotional Speech Set (TESS) contains recordings of two actresses speaking a set of 200 target words in the neutral, happy, sad, angry, fearful, disgusted, and surprised emotions.

2. Data Preprocessing

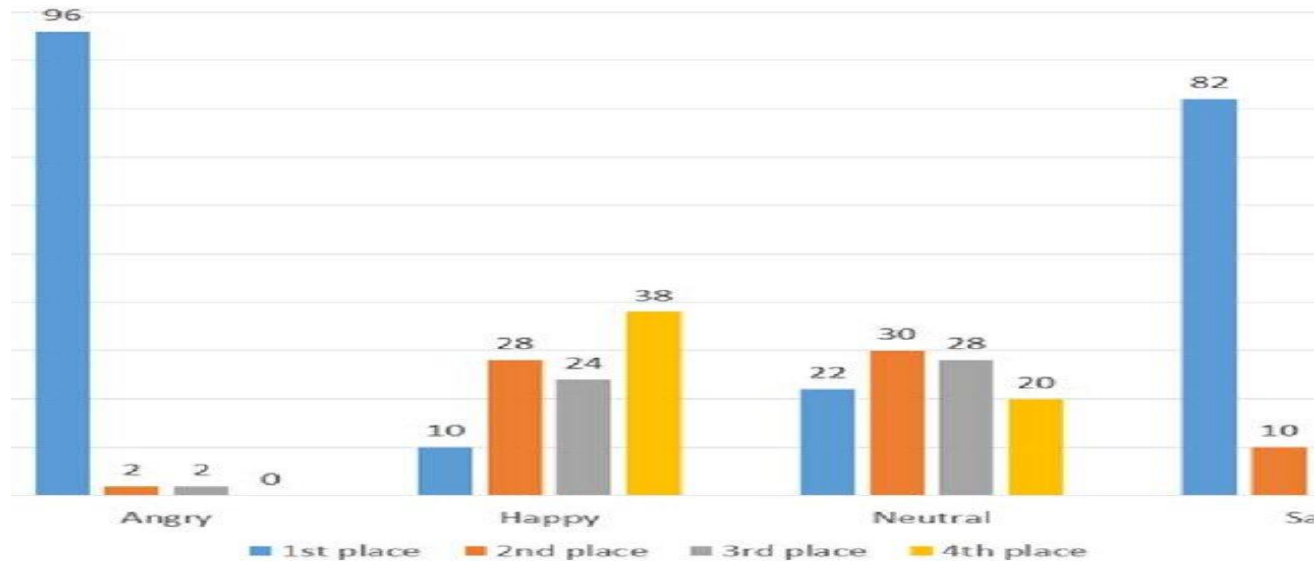
Loading the Data: Load the audio files using libraries like librosa or wave.

Noise Reduction: Apply noise reduction techniques if necessary, using methods like spectral gating.

3. As a part of the group we created this projected and completed it with as per instructions given by guide.

4. Duration : It is ongoing Currently .

By using Google Colab done this work using python and Machine Learning algorithms.



Analysis of different emotions

3. Worked on Creating a visual representation of Famous Ecommerce Site BLINKIT on various analysis.



- Created a visual representation of the Different scenarios about BLINKIT Group.
- It involves the location of group and many more.
- The most excited from remaining projects and from these one is used advance topics like Map and many more.
- It involves data collection, cleaning, analyzing the data and apply the techniques.

Role of SQL in Blinkit Dashboard Creation

- SQL plays a crucial role in data extraction, transformation, and loading (ETL). They are :

1. Understanding the Data Requirements

- ☐ **Data Sources:** Identify the databases and tables in SQL that contain the relevant data (e.g., sales data, inventory, delivery times, customer data, etc.)
- ☐ **Key Metrics:** Define the KPIs (Key Performance Indicators) you want to display on the dashboard (e.g., total sales, order fulfillment rates, average delivery time, etc.).

2. Data Extraction using SQL

- ☐ **Writing SQL Queries:** SQL is used to extract data from various tables and databases.

3. Data Transformation

- ❑ **Data Cleaning:** Use SQL to clean and prepare data.

4. Data Loading

- ❑ **Connecting SQL to Tableau:**

- Establish a connection between Tableau and your SQL database. Tableau supports various SQL databases like MySQL, PostgreSQL, SQL Server, etc.
- Use Tableau's built-in SQL Editor or write custom SQL queries within Tableau to pull in the pre-processed data.

5. Building the Dashboard in Tableau

- ❑ **Data Import:** Use the SQL queries or views to import data into Tableau.
- ❑ **Data Blending:** If data from multiple sources (or SQL queries) needs to be combined, Tableau allows data blending to create a unified dataset.

- ❑ **Tools :** Tableau, SQL, Data.

- ❑ **Duration :** 6 days.

- ❑ **Githu Link :** <https://github.com/Aravind1727/Data-Analytics-Dashboard-Creation.git>

Thank You