**Project Title:**  
*Website Scraping on Snapdeal Website*

**1. Title Page**

* Project Title: Website Scraping on Snapdeal Website
* Student Name: Ayush Dnyaneshwar Gunjal
* Module: Python for Data Science
* Institution: ITvedant
* Mentor: Mr. Sameer Warsolkar
* Date of Submission

**2. Acknowledgment**

* Gratitude towards mentor, institution, and others who contributed to the project.

**3. Abstract**

* A brief summary of the project, its objectives, techniques used, and outcomes.

**4. Table of Contents**

* List of sections and page numbers.

**5. Introduction**

* Overview of the project, its importance, and the motivation behind selecting this topic.
* Brief explanation of web scraping and its relevance in data science.

**6. Objectives**

* Clearly state the aims of the project (e.g., to extract product data from Snapdeal).
* Mention specific data points like product name, price, discount, and off-price.

**7. Description of Snapdeal Website**

* Brief background about Snapdeal, its offerings, and why it was selected for the project.

**8. Methodology**

* **Tools and Technologies Used:**
  + Python, BeautifulSoup, requests, pandas (optional).
* **Steps Involved in Web Scraping:**
  + Accessing the website.
  + Inspecting the HTML structure of Snapdeal’s product pages.
  + Extracting product details (name, price, discount).
  + Storing the extracted data in a structured format (e.g., CSV or DataFrame).

**9. Code Explanation**

* Provide a breakdown of the Python code used for scraping.
* Explain each step: sending requests, parsing HTML with BeautifulSoup, data extraction, and storage.

**10. Results and Analysis**

* Present the data extracted from Snapdeal.
* Show examples of the data (tables, graphs, or screenshots of the scraped data).
* Discuss any trends, patterns, or insights derived from the data.

**11. Challenges and Solutions**

* Outline any challenges faced during the project (e.g., CAPTCHA, dynamic content, website blocking).
* Mention the techniques used to overcome these challenges.

**12. Conclusion**

* Summarize the key takeaways from the project.
* Discuss the potential applications of the scraped data (e.g., market analysis, price comparison).

**13. Future Enhancements**

* Suggest ways to improve the project (e.g., automating data extraction at regular intervals, scraping additional data points, or applying the project to other websites).

**14. References**

* List of books, websites, or documentation referred to during the project.