

Comprehensive Analysis and Dietary Strategies with Tableau

A College Food Choices Case Study

Project Overview

This project, titled 'Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study', aims to analyze the dietary preferences, health trends, and influencing factors of university students' food choices using a dataset visualized through Tableau and presented via a Flask web app.

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Project Structure

The project includes:

- Home Page: A visually appealing banner introducing the case study.
- About Page: Details about the data analyzed and insights uncovered.
- Dashboard Page: Embedded Tableau dashboards showcasing interactive visualizations.
- Story Pages (Story1, Story2, Story3): Narratives created in Tableau Public and embedded for better understanding.
- Insights Page: Summary of key findings.

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Technology Stack

Technologies used:

- Python (Flask) for backend web server.
- HTML, CSS (Materialize + Bootstrap) for frontend styling.
- Tableau Public for data visualization.
- Jinja templating to dynamically render HTML pages.

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Flask Routing

Flask Routing Overview:

- '/' and '/home': Home page
- '/about': About page
- '/dashboard': Embedded Tableau dashboard
- '/story1', '/story2', '/story3': Tableau story embeds
- '/insights': Key analysis insights

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Setup & Deployment

Setup Instructions:

1. (Optional) Create a virtual environment:

```
python -m venv venv
```

```
venv\Scripts\activate (Windows)
```

2. Install Flask:

```
pip install flask
```

3. Place HTML files in 'templates/' and static assets (CSS/images) in 'static/'.

4. Run the app:

```
python app.py
```

5. Navigate to <http://localhost:1212> in your browser.