Abstract: This project aims to develop a data-driven web application using Taipy, a Python-based data and AI app builder. The application will facilitate the extraction of valuable insights from a given dataset without requiring extensive web development experience.

Problem Statement: Many Python developers lack web development skills, hindering their ability to create data-driven applications. Traditional methods often involve complex coding and learning curves, limiting accessibility to data analysis and visualization.

Existing System: Existing solutions for building data-driven web applications often require proficiency in web development languages such as HTML, CSS, and JavaScript. This poses a barrier for Python developers who primarily focus on data analysis and AI development.

Proposed System: The proposed system leverages Taipy, a user-friendly data and AI app builder for Python developers. With Taipy, users can create data-driven web applications effortlessly, enabling them to extract insights and value from datasets without extensive web development knowledge.

Advantages:

Simplified development process for Python developers.
Enables quick creation of data-driven web applications.
Facilitates data analysis and visualization without web development expertise.

Disadvantages:

Limited customization compared to traditional web development.
Dependency on Taipy's features and capabilities.
Potential learning curve for understanding Taipy's interface and functionalities.

Applications:

Data visualization for business analytics.
Interactive dashboards for tracking key performance indicators.
Predictive modeling applications for various industries.