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| **Taipy** | **Streamlit** |
| Extended markdown syntax and Python API for simplicity. | Simplified application design with minimal code. |
| Supports interactive callbacks for UI elements. | Limited control over graphical events. |
| High flexibility with easy customization of UI elements. | Standard design template with limited customization. |
| Enhanced support for handling large datasets. | No inherent optimization for large data. |
| Dedicated support for backend development. | Primarily controlled by a simple front-end framework |
| Can effortlessly scale with your project, handling increased loads. | Primarily designed for prototyping and small to medium-sized applications. |
| Optimized for speed and efficiency, ensures responsive applications under various operations. | Uses caching for improved performance, suitable for varied data processing tasks. |
| Supports creating applications tailored to varied audiences with personalized experiences. | Multi-page apps for different user roles but with external profile management. |
| Facilitates seamless integration with other applications and services. | External API integration but via Python Script for extended functionality. |
| Provides robust mechanisms for security, ensuring controlled and secure access. | Lacks native security features; relies on services like AWS Cognito |