Loan Risk Prediction Application

Deployment Instructions

Follow these steps to deploy the Loan Risk Prediction Application locally and access it via a web interface using Gradio.

1. Set Up Your Python Environment

Make sure you have Python installed on your machine. It's recommended to use a virtual environment to manage dependencies. If you are using conda, follow these steps:

o Open your terminal and create a new environment: conda create --name myenv python=3.9

o Activate the environment: conda activate myenv

2. Install Required Packages

Install the necessary dependencies, including Gradio, pandas, numpy, scikit-learn, and joblib, by running the following command: pip install gradio pandas numpy scikit-learn joblib

3. Ensure Your Model File is Ready

Make sure that the trained model (logistic_model.pkl) is saved in the same directory as app.py.

4. Run the Application

- o Navigate to the directory where app.py is located: cd path/to/your/project
- o Run the application using Python: python app.py

5. Access the Application

Once you run the script, you will see a local URL like: Running on local URL: http://127.0.0.1:7860

Open your web browser and navigate to this URL to access the loan risk prediction interface.

Additionally, if you want to share the app publicly for temporary testing or sharing, Gradio will provide a public URL like:

Running on public URL: https://<random-hash>.gradio.live

You can access the app using the public URL from any device.