Flowchart: Al-Powered Loan Eligibility Advisor

User Loan Request

- Input: income, loan amount, credit score, loan history

1. Data Ingestion & Preprocessing

- Clean & normalize data
- Encode categorical variables
- Feature scaling

2. Machine Learning Model

- Train Logistic Regression / Random Forest / XGBoost
- Evaluate & select best model
- Save model for inference

3. Explainability & Report Generation

- SHAP/LIME explanations
- Feature importance & contribution plots
- Generate PDF report

4. Financial Chatbot (NLP)

- Trained with FAQs (EMI, credit score, rejection reasons)
- Rasa / HuggingFace integration

5. Streamlit Web App & Deployment

- User form for loan inputs
- Predict button \rightarrow instant results
- Visualizations + chatbot
- Downloadable PDF report