**Project Plan**

**Day 1: Kickoff & Ideation**

* Review project requirements.
* Brainstorm and shortlist 2–3 ideas.
* Choose final project topic (loan prediction).
* Assign tasks to each member.

**Day 2: Dataset Selection & Initial Exploration**

* Find and download a dataset (100+ records).
* Load data using **Collab**.
* Explore dataset: check structure, nulls, distributions, outliers.

**Day 3: Data Cleaning & Preparation**

* Clean and preprocess data (handle nulls, normalize if needed).
* Encode categorical variables if needed.

**Day 4: Model Training (Scikit-learn/Supervised Learning)**

* Choose a model.
* Train/test split the dataset.
* Train your model.
* Evaluate using metrics (accuracy, precision, recall, etc.).

**Day 5: Model Tuning & Validation**

* Hyperparameter tuning.
* Re-evaluate and finalize model.
* Save the model.

**Week 2: Visuals, Integration & Presentation**

**Day 6: Visualization**

* Use **Matplotlib**/**JavaScript** to create visuals:
  + Input features
  + Model results.
  + Insights from the dataset

**Day 7: Frontend or Interface Integration**

* Build a simple interface.
* Optionally connect to **MongoDB/SQL** for persistent storage.
* Display model predictions and visual insights.

**Day 8: Testing & Polish**

* Test all components (data flow, ML model, visuals, interface).
* Add comments and refactor code.
* Ensure it runs smoothly from start to finish.

**Day 9: Documentation & Final Touches**

* Write a detailed README (overview, setup, usage).
* Create a short demo script.
* Prepare slide deck.

**Day 10: Practice & Deliver**

* Run through full demo with your team.
* Adjust based on feedback.
* Submit final project & present to class.