

Category Code: C3

Problem Statement Title: Loan approval classification with a general purpose economic chatbot

Team Name: CodeZilla

Institute Name: Vivekanand Education Society's Institute of Technology























Idea and Implementation

This AI system breaks down **loan approval** into logical steps . Specialized sub-agents calculate and estimate **credit score using RAG**, ensuring accurate and fair judgement, followed by a **calculation and visualization of probability of loan acceptance**.

How It Works:

- Sub-Agent Processing Dedicated AI agents calculate the credit score using a vector RAG container.
- 2. <u>Data-Driven Calculation</u> AI calculated probability of loan acceptance.
- 3. <u>Seamless API Integration</u> Enables real-time, automated loan estimation using request to models like **OpenAI's 40**, **Gemini's 1.5 Flash**.

Innovation and technologies used <



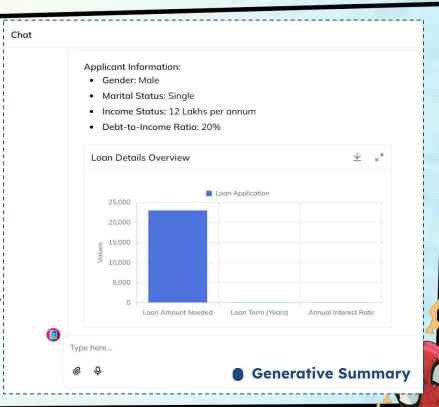
1.Credit Score RAG Container: Accurately estimates credit scores for laymen.

2. Agentic Pipeline: Dynamically integrates with any verified front end.

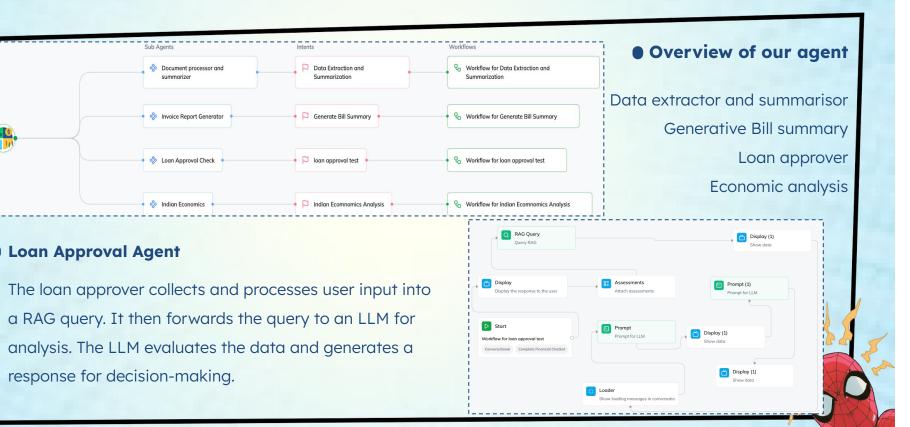
3.**Smooth Language Processing**: Ensures a seamless user experience.

4.AI Agents: Collect user input and call 40 and 40 mini.

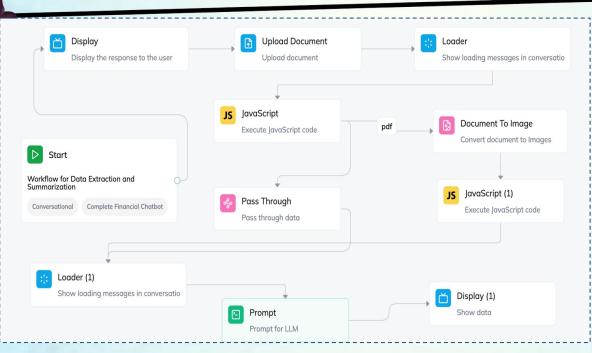
5. Uptiq UI Integration: Generates responses in a user-friendly format.



Our Agent. The Solution.



External Features and Bloatware





Document Summariser

Invoice generator

The Product.



successfully created a complete agent.

Implementation Demo Link: https://tinyurl.com/mr3dkvdx



Insights:

- Total Monthly Payment: \$1,443.75
- Principal Contribution: \$1,250
- Interest Contribution: \$193.75

This allocation indicates that while the majority of payments go toward the principal, a considerable portion is allocated to interest payments.



Future Objectives



- **2.Deeper API Integration** Expand compatibility with multiple fintech platforms for seamless automation.
- **3.Adaptive Learning Mechanism** Implement continuous learning to refine loan approval processes over time.
- **4.Explainable AI (XAI) Implementation** Ensure transparency by providing clear justifications for approval decisions.
- **5.Scalability & Global Expansion** Optimize the system for different financial regulations and international markets.
- **6.User-Centric Enhancements** Improve the custom widget with more interactive and intuitive features.