



Introducing our multi-agent AI system - it chats with customers, verifies identity, checks credit, and approves loans in real-time. Think of it as a team of tireless, superefficient bankers who never take coffee breaks, never make mistakes, and always keep customers smiling.

## **Meet the Team!!!**

Jayal Shah The Code Captain
Steers our Python ship
through the stormy seas
of algorithms and data
structures. Deadlines
don't scare him.

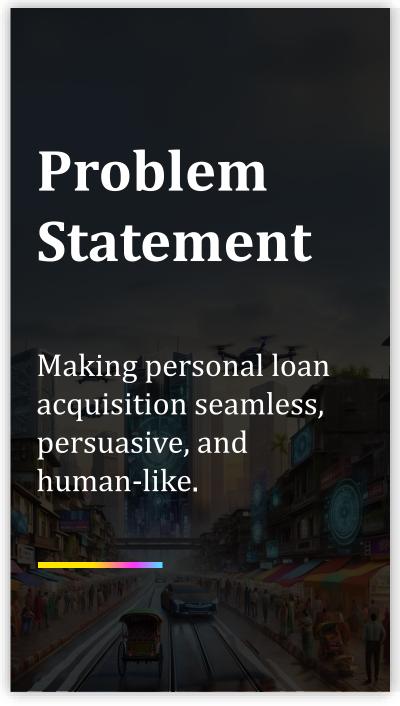
Sakshi Giglani The Data Whisperer
Talks to databases like
they're old friends. Queries
obey her, mock servers fear
her, and CRM integration?
Smooth sailing

Kaushal Ramanuj The UX Sorcerer
Front-end virtuoso:
pixels obey, interfaces
charm, and every click
feels like butter. Making
our chatbot irresistible is
his superpower

Pranjal Panchal The Documentation Ninja

Every step, every process, every tiny detail captured. She documents faster than you can say 'version control'

Sakshi Makwana The Al Alchemist
Turns raw data into Al
gold. Orchestrates
workflows like a
symphony conductor algorithms dance to her
tune



### **Current Challenge:**

- Personal loan applications are often **slow, impersonal, and prone to drop-offs** due to lengthy forms and delayed verification.
- Existing systems are linear and siloed, lacking orchestration between verification, credit evaluation, underwriting, and sanctioning.

### **Objective:**

- Build a Master AI Agent to orchestrate multiple Worker Agents handling sales, KYC verification, credit assessment, and sanction letter generation.
- Provide a human-like conversational interface that adapts to customer inputs, persuades effectively, and handles edge cases (e.g., low credit score, high requested amount).
- Reduce manual effort, improve conversion rates, and ensure accuracy, transparency, and customer trust.

## **Key Concepts Applied:**

- Conversational AI for natural, adaptive dialogue.
- Agent-Oriented Architecture for orchestrating specialised Worker Agents.
- Decision-Oriented Workflow for real-time eligibility checks and approvals.
- User-Centric Design to make the process intuitive, persuasive, and seamless.

## How We Make Personal Loans a Breeze

**Output Form Factor:** Web-based chatbot acting as a 24/7 digital sales assistant

**Key User Group:** Prospective and existing NBFC customers seeking fast, conversational loan support

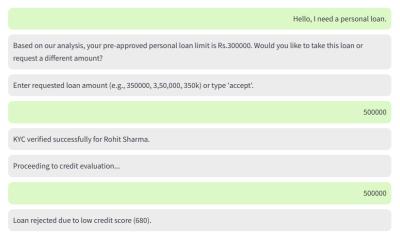
### **User Journey:**

- Greeting and personalized intro showing pre-approved offers
- Collects loan amount, tenure, and EMI preferences
- KYC verification via a worker agent using a mock CRM
- AI pipeline performs credit and underwriting evaluation
- Decision Engine issues a sanction letter or rejection message
- Feedback collection and friendly closure

**Unique Value:** Combines automation, AI, and conversational engagement to make loans simpler, faster, and more human-like.

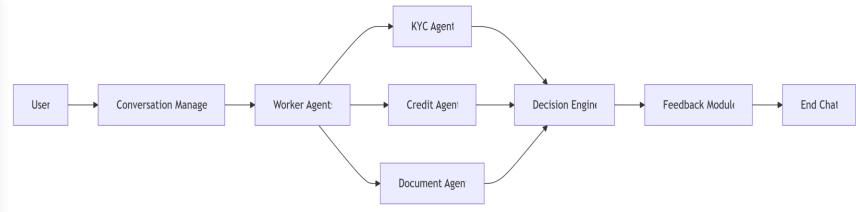


#### Screenshot of chat (Accepted)



Screenshots of chat (Rejected)





**System Overview:** A multi-agent AI system that chats with customers, verifies identity, checks credit, and gives real-time approvals or rejections.

## **Components:**

**Chatbot:** Web interface for user interaction

**Conversation Manager:** Manages chat flow

### **Worker Agents:**

- KYC Agent: Verifies identity
- Credit Agent: Checks eligibility
- Document Agent: Validates documents

**Decision Engine:** Automatic

approvals/rejections

Feedback Collector: Gathers user feedback

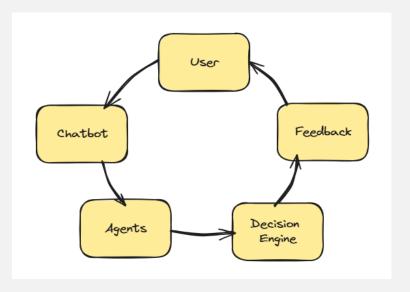
### **Technologies:**

**Frontend:** Streamlit / React

**Backend:** Python, Flask

AI: LangChain, OpenAI API, NLTK

Database: Firebase / MongoDB



# Why This Solution Works for Everyone

Category	Benefits / Features	Impact / Metrics	
Customers	<ul> <li>Instant decisions</li> <li>Personalized loan options</li> <li>24/7 availability</li> <li>Human-like conversations</li> <li>Reduced errors</li> </ul>	<ul> <li>Faster access to loans</li> <li>Better experience and trust</li> <li>Higher satisfaction (CSAT Score)</li> </ul>	
NBFC	<ul> <li>Faster processing (↓60% manual time)</li> <li>Higher conversion rates</li> <li>Improved customer retention</li> <li>Cost savings from automation</li> <li>Scalable operations</li> </ul>	<ul> <li>Approval rate increase (%)</li> <li>Average processing time (minutes)</li> <li>Operational cost reduction (%)</li> </ul>	
ROI	<ul> <li>Save manpower costs by automating 30% queries</li> <li>Increase revenue with faster loan conversion</li> <li>Reduce errors and improve compliance</li> </ul>	<ul><li>Measurable cost savings</li><li>Higher revenue and efficiency</li><li>Long-term customer loyalty</li></ul>	

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