

## Objective

Build a web-based, agent-powered credit card recommendation system that uses LLMs and tool integrations to guide users through a personalized Q&A journey and suggest the best-fit credit cards based on their preferences. This project tests your skills in using AI coding tools, agent frameworks, and LLMs to build a working consumer-facing prototype.

## Key Features

- **Conversational Agent (LLM-Powered)**

- Built using OpenAI Assistants API, LangChain agents, or equivalent.
- Asks dynamic questions:
  - Monthly income
  - Spending habits (fuel, travel, groceries, dining)
  - Preferred benefits (cashback, travel points, lounge access)
  - Existing cards (optional)
  - Approx. credit score (or allow "unknown")
- Stores user answers for context-aware dialogue.

- **Card Database (Static or Dynamic)**

- Build or scrape a sample dataset of 20+ Indian credit cards.
- Each card must have:
  - Name, issuer, joining/annual fee
  - Reward type & rate
  - Eligibility criteria
  - Special perks (e.g., lounge, cashback, Amazon vouchers)
  - Affiliate/apply link (can be dummy)
- Store in SQL, JSON, or vector DB.

- **Recommendation Engine**

- Based on user inputs, filter and rank top 3–5 cards.
- Each recommendation must include:
  - Card name & image
  - Key reasons for recommendation
  - Reward simulation (e.g., "You could earn Rs. 8,000/year cashback")

- **Frontend Web UI**

- Chat-based or guided form-like interface.

- Post-conversation summary screen with card recommendations.
  - Option to compare cards or restart flow.
  - Mobile responsive UI
- **Optional (Bonus) Features**
    - Integration with WhatsApp (Twilio API)

## Submission Requirements

- GitHub repository with:
  - Clean README with demo video/GIF
  - Codebase with setup instructions
  - Clear documentation of agent flow and prompt design
- Deployed frontend link (any framework)

## Evaluation Criteria

Agent Quality & Prompt Design
Card Matching Accuracy & Justification
Tool/Database Integration
Frontend Experience & UX
Creativity & Optional Features

## Timeline

- 3 days