AI for Bharat Hackathon

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Team Name : LernAi

Team Leader Name :Sagar Kumar

Problem Statement :AI for Learning & Developer Productivity Problem Statement:
Build an AI-powered solution that helps people learn faster, work smarter, or become more productive while building or understanding technology.

Brief about the Idea:

- AI-powered chatbot that transforms complex information into:

- Short bullet summaries

- Acronyms & mnemonics

- Visual flowcharts & diagrams

- Helps students & developers learn faster and remember longer.

Your solution should be able to explain the following:

- How different is it from any of the other existing ideas?

- Not just summaries; includes memory aids & visuals

- How will it be able to solve the problem?

- Simplifies learning + boosts retention

- USP of the proposed solution

- Combines summaries + mnemonics + diagrams in one tool

List of features offered by the solution

- Smart Summaries
- Memory Booster Engine
- Visual Converter
- Developer-friendly explanations
- Adaptive Learning
- Export notes

Process flow diagram or Use-case diagram

1. User Input
2. Text Pre-processing
3. Summary Engine
4. Memory Aid Generator
5. Visual Diagram Builder
6. Output to User

Wireframes/Mock diagrams of the proposed solution (optional)

- Home Screen: Input + Upload
- Output Screen: Summary + Mnemonics + Diagrams
- Export Options: PDF/Image/Flashcards

Architecture diagram of the proposed solution:

- Frontend: Web + Mobile
- Backend: APIs, Engines
- AI Models: LLM, Mnemonic Generator
- Database: NoSQL, S3 Storage

Technologies to be used in the solution:

- React.js, Flutter
- Node.js/Python
- LLMs, NLP Libraries
- Mermaid.js/Graphviz
- AWS Cloud

Estimated implementation cost (optional):

- LLM/API: ₹2k–₹5k/month
- Cloud Storage: ₹500/mo
- Backend Compute: ₹1k/mo
- Total: ₹4k–₹7k per month

Add as per the requirements for the hackathon:

- Fits AI for Learning & Productivity
- Scalable for education & corporate training
- Future potential: full learning platform

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Thank You