

Git Insight

Revolutionizing Git insights





Team Description

- Team Name: Git Insight
- Current Leader: Ankith Indrakumar
- Next Leader: Akhil Patil Bagili
- Members: Ankith Indrakumar, Akhil Patil Bagili, Shanmukha Sri Harsha Anivilla
- Github URL: <https://github.com/Ankith-Harsha-Akhil/GitInsight>



Project Title & Description

- GitInsight simplifies Git commit analysis through an AI-driven chat interface, providing users with comprehensive insights.
- Users can effortlessly inquire about commit details, contributors, and trends, receiving prompt and accurate responses.
- With customizable queries and natural language interaction, GitInsight empowers teams to make informed decisions, streamline collaboration, and optimize project management.
- This innovative platform bridges the gap between complex Git data and user-friendly accessibility, enhancing productivity and facilitating a deeper understanding of repository activity.



Job Assignments

- Ankith & Akhil: Project management, backend development, database management, security
- Akhil & Harsha: Frontend development, UI/UX design, testing, documentation
- Ankith & Harsha: AI/ML modeling, integration
- All Team Members: Deployment



Milestones & Deadlines

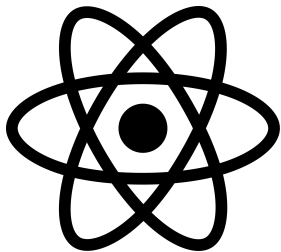
- Week 1: Project Setup & Design.
- Week 2: Backend development kick-off.
- Week 3: AI model development begins.
- Week 4: Frontend development starts.
- Week 5: Database and vector search integration.
- Week 6: AI and front-end integration.
- Week 7: Security measures and API integration.
- Week 8: Initial testing phase.
- Week 9: Feedback implementation.
- Week 10: Deployment and documentation.



Technology Tools



- Frontend: React, Axios, Vite, HTML, CSS
- Backend: Flask, Astra DB, llama-index, Cassio, GPT-4
- Deployment: AWS or Render





Algorithms/ML/AI Tools

- GitInsight leverages Vector DBs for streamlined data indexing and retrieval, ensuring efficient access to Git commit information.
- Augmenting this capability is the RAG (Retrieval-Augmented Generation) model, fueled by OpenAI's GPT models.
- This combination enables GitInsight to not only generate responses but also comprehend user queries effectively.
- This innovative approach enhances usability, fosters deeper understanding, and empowers users to make informed decisions in software development projects.



Market Space & Selling Points

- Market Space: Targets developers, project managers, and non-technical users needing insights into Git commits without the complexity of the command line.
- Selling Points: Unique ability to answer open-ended questions about Git commits, user-friendly chat interface, and detailed analytics beyond simple commit counts.



Partner Team

Partner Team: BeyondBottles

Feedback:

1. Try using open source LLM instead of Open AI's GPT 4 API call.
2. If Render is paid, try exploring other platforms for deployment.
3. Try building a user appealing UI.



Thank You