

Dr. D. Y. Patil Institute of Technology Question Paper Al Analyzer with Study Material

Introduction to our project:

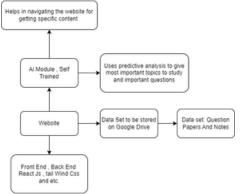


The objective of this project is to develop a comprehensive educational website for university students, providing free study materials, curated YouTube video links, and interactive learning resources. The platform aims to enhance accessibility to quality education by integrating a chatbot for academic assistance and, if feasible, a student community for discussions and knowledge sharing. This initiative seeks to foster collaborative learning, improve academic performance, and create a supportive online ecosystem for students.



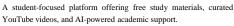
System Architecture:





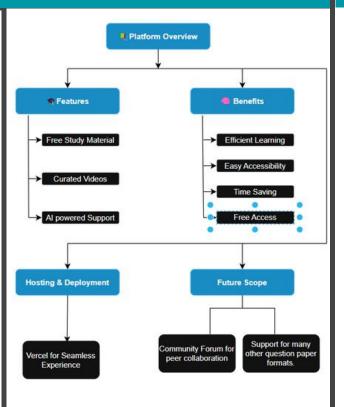


Proposed Model



- · Frontend: React, Next.js, Tailwind CSS for a seamless UI
- Backend: Node.js, Express.js, MongoDB for robust data handling
- · AI Chatbot: Botpress & TensorFlow for smart assistance
- Storage & Hosting: Google Drive & Vercel
- · Security: OAuth-based authentication
- · Community (optional): Peer discussion forum





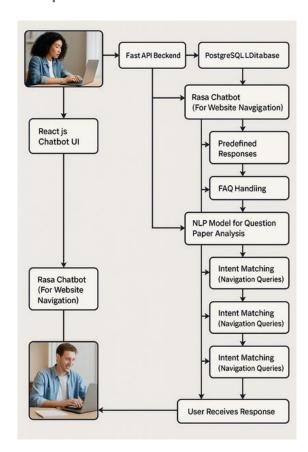
Challenges Content Quality Ensuring accurate and updated study materials. User Engagement Encouraging active participation. Al Chatbot Accuracy Providing reliable academic support. Scalability Handling high traffic efficiently Security Ensuring safe authentication and data protection Storage Management Cygnatizing large study resources

High-Quality Study Materials Verified and high-quality resources will enhance concept clairly and academic performance. Predictive Analysis for Exam Preparation The system will analyze past question napars to identify frequently asked topics, heighing students prioritize their soldy efforts. Community-Driven Learning The system will provide discussion features where students can ask questions and share resources. Cost-Effective Education Solution While many platforms require high while many platforms require high provide all its study materials forf re

Guide: Mrs. Trupti Deshmukh Memhers:

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Components of Website



CONCLUSION

An AI-driven educational platform offering free study materials, personalized recommendations, and smart exam prep through question paper analysis. With chatbot support, predictive insights, and a community forum, it ensures efficient, interactive, and accessible learning.