

# **Study Buddy**

AI-Powered Learning Assistant







### **Transforming How Students Learn**



### The Challenge

Students struggle with information overload from lengthy documents,

lack personalized study materials, and need efficient ways to

create summaries, flashcards, and study plans from their resources.



### **Our Solution**

Study Buddy leverages AI and RAG technology to automatically

transform uploaded documents into personalized study materials,

providing intelligent tutoring and adaptive learning experiences.

### **Powerful Features**



#### **Document Upload**

Upload and view PDF documents with intelligent processing



#### **Smart Summaries**

AI-generated beautiful summaries from your documents



#### **Flashcards**

Interactive flashcards for effective memorization



#### **Q&A Generation**

Automated questions and answers for revision



### **Study Slides**

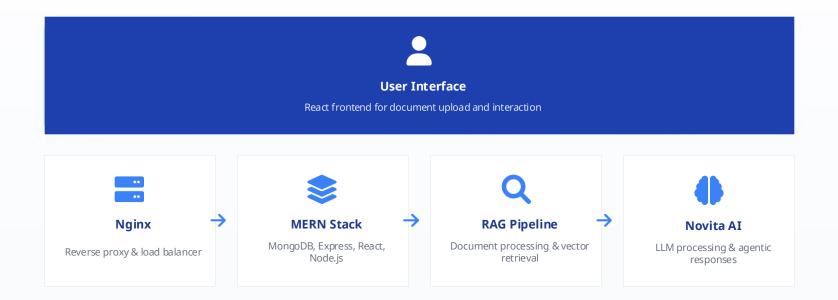
Professional presentation slides from your content



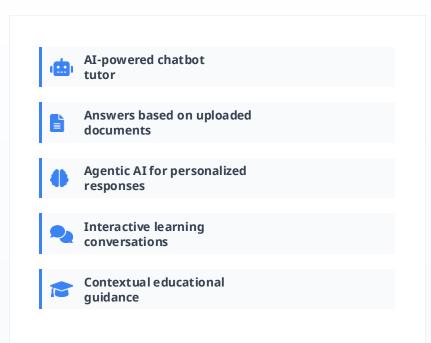
### **Study Plans**

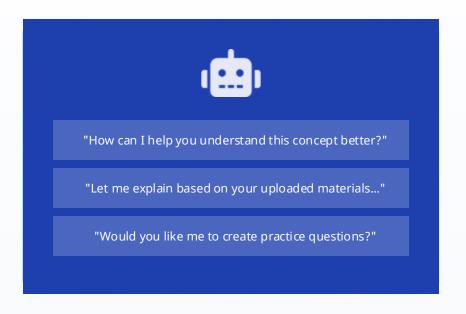
Personalized study plans with milestones

## **System Architecture**

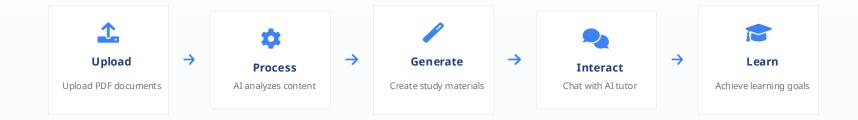


# **Intelligent Tutoring**

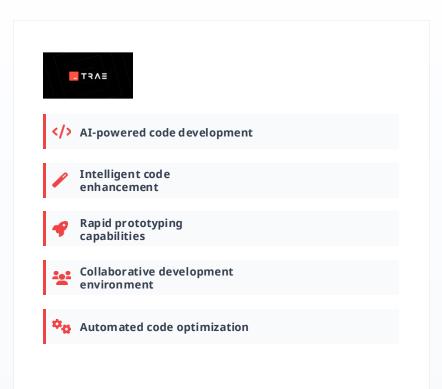




# **Seamless User Experience**

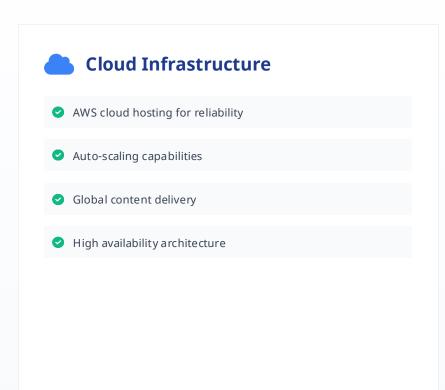


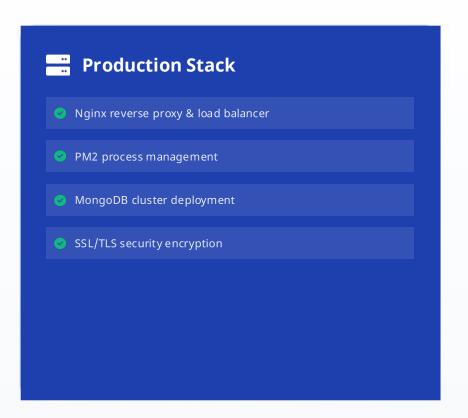
# **Powered by Trae IDE**



```
// AI-assisted development
                    const studyBuddy = new AIApp({
'Analysis']
// Enhanced with Trae IDE
                    studyBuddy.enhance()
                      .optimize()
                      .deploy();
     Accelerated development with AI-powered assistance
```

# **Scalable Deployment**





### **Future Vision**



#### **Lecture Upload**

Support for video lecture uploads with automatic transcription and content extraction



### YouTube Integration

Extract educational content directly from YouTube videos for study material generation



### **Collaborative Learning**

Building features for group study sessions and peer-to-peer learning experiences



### **Analytics & Insights**

Providing detailed learning analytics and progress tracking for students and educators