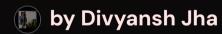
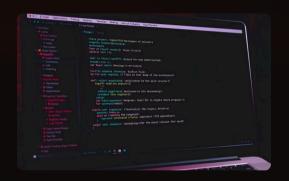
# AITALK: AI-Powered Project & Code Assistant

AITALK is a command-line AI tool that boosts developer productivity. It automates project creation, code summarization, git insights, and interactive chat.





## Key Features Overview









#### **Project Generation**

Instantly scaffold React projects from plain English descriptions.

## Command Explanation

Explain last N shell commands and outputs from your terminal session.

#### File Summarization

Summarize .txt, .pdf, or .docx files extracting key insights.

#### **Git Summary**

Analyze git history and status with technical insights and suggestions.

## Interactive Chat Feature

1

#### **Start Chat**

Launch interactive AI chat in your terminal with aitalk --chat.

2

#### **Conversation Context**

Maintains full conversation history for contextual AI responses.

3

#### **Exit Chat**

Type exit or quit to leave chat mode anytime.







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## How Interactive Chat Works



#### **Input Loop**

Waits for user input and adds it to conversation history.



#### Prompt Formatting

Formats conversation for Groq LLaMA model to generate replies.



#### **AI** Response

Prints Al reply and continues until user exits.

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## Explain Last N Shell Commands

#### Usage

Run aitalk --explain-5 to explain last 5 commands and outputs.

#### **Session Logging**

Enable logging with script ~/aitalk\_session.log before running.

#### **AI** Explanation

Groq LLM returns step-by-step human-readable command explanations.

## How Command Explanation Works



Reads log file and finds last N command-output blocks.



Prompt Construction

Builds prompt with commands and outputs for Al analysis.



Prints clear, concise explanation from Al in terminal.

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## Git Summary Feature

#### Usage

Run aitalk --git-summary inside any git repository.

#### **Summary Content**

Includes commits, merges, staged changes, insights, and suggestions.

## How Git Summary Works



Runs git status and git log commands to gather info.



#### **Prompt Creation**

Combines git data into prompt for Groq LLM summarization.



Prints professional, technical, human-readable git summary.



## File Summarization Feature

#### **Supported Files**

- .txt plain text
- .pdf extracted with PyMuPDF
- .docx extracted with python-docx

#### Usage

Run aitalk --summarise "prompt" file.txt to get Al summary.

## Installation & Help

1

#### **Installation**

Clone repo, create virtual environment, install dependencies, add Groq API key.

2

#### **Help Command**

Run aitalk --help to see all commands and usage instructions.

3

#### Requirements

Python 3.8+, Node.js, npm, Git, and required Python packages.

