

10 AI-Based Full Stack Project Ideas (with Hugging Face Models)

AI-Powered Education Tutor

Description: Interactive tutor for school/college subjects with quiz generation, explanations, and topic summaries.

Features: Subject-based Q&A, Lesson Plan Generation, Quiz Creation, Voice Input (Mobile)

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: flan-t5-base, t5-base-finetuned-question-generation-ap

AI Meal Planner & Nutrition Advisor

Description: Suggests personalized meals and recipes based on goals and ingredients.

Features: Meal Planning, Recipe Suggestions, Ingredient Analysis, Calorie Estimation

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: flax-community/t5-recipe-generation

AI Career Coach

Description: Provides resume feedback, job suggestions, and interview prep tips.

Features: Resume Analysis, Job Tips, Interview Questions, Career Guidance

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: sentence-transformers/all-MiniLM-L6-v2, flan-t5-base

AI Mental Wellness Companion

Description: Helps track mood, analyze journal entries, and offer wellness suggestions.

Features: Mood Tracker, Sentiment Analysis, Journaling, Wellness Tips

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: cardiffnlp/twitter-roberta-base-sentiment, bert-base-uncased

Smart To-Do & Note Manager

Description: Organizes tasks with AI summaries and speech-to-text integration.

Features: Task Management, Summarization, Speech-to-Text, Categorization

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: facebook/bart-large-cnn, openai/whisper-small

AI Travel Guide & Planner

Description: Generates personalized travel itineraries with maps and local info.

Features: Itinerary Generator, Nearby Attractions, Map View, Weather Info

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: flan-t5-base, Google Places API (non-AI)

AI Legal Document Analyzer

Description: Explains legal terms, summarizes contracts, and extracts clauses.

Features: Document Upload, Clause Extraction, Legal Simplification

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: t5-base-summarize-news, dslim/bert-base-NER

AI Fitness Trainer

Description: Gives workout suggestions and posture correction via camera.

Features: Workout Plans, Pose Detection, Real-Time Feedback

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: mediapipe + flan-t5-base

AI Content Generator for Creators

Description: Helps content creators with post ideas, hashtags, and descriptions.

Features: Idea Generation, Description/Caption Writing, Tag Generator

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: flan-t5-base, bert-base-uncased

Real-time AI Chat Support App

Description: Live chat system with AI-generated auto replies and FAQ support.

Features: AI Chatbot, FAQ Answering, Live Agent Handoff, Real-time Messaging

Tech Stack: React JS, React Native, Node.js, Express.js, MongoDB

AI Models: flan-t5-base, distilgpt2