



[Link to Video](#)

## Project Focus Segments: Building AI Applications with Large Language Models (LLMs)

This document is designed to complement the video on building AI applications using Large Language Models (LLMs). It provides detailed information on the project focus segments discussed in the video, allowing you to follow along and create your own AI projects. Each segment includes a brief description and potential project ideas to help you start building your AI portfolio.

### 1. Text Summarization and Knowledge Extraction

LLMs are highly effective at summarizing large volumes of text and extracting key information. Here are some project ideas in this segment:

- Web Link Summarizer: Build an LLM app that can summarize content from web URLs, helping users quickly grasp the main points of online articles.
- Research Topic Expert: Create an LLM-based tool that fine-tunes on specific topics, allowing it to serve as a personal research assistant.
- Book and Video Summarizers: Develop LLM applications that summarize books or videos, offering users concise overviews.

### 2. Multimodal Data Processing with LLMs

Multimodal LLMs can process and understand data from multiple sources, such as text, images, audio, and video. Some potential projects include:

- Custom Dataset Creation: Develop an application that extracts text from images or audio files, helping to create datasets for specific industries.
- Text-to-Website Converter: Use LLMs to convert textual prompts into full-fledged websites.
- AI-Powered Content Creation: Utilize LLMs to generate visual and audio content, such as AI avatars or storybooks from textual data.

### 3. Building AI Agents with LLMs

AI agents powered by LLMs can automate repetitive tasks and provide intelligent insights. Consider the following project ideas:

- Automated Task Manager: Build an AI agent that automates repetitive tasks such as data labeling or document summarization.
- Personal Productivity Assistant: Develop an AI tool that suggests optimal schedules, personalized productivity tips,

and even customized meal plans.

- **\*\*AI Decision-Maker\*\***: Create an AI agent that assists in making informed decisions by analyzing data from various sources.

#### 4. Privacy-Focused Small LLMs

Small LLMs that run locally on devices are ideal for handling sensitive information. Projects in this area might include:

- Legal Document Analysis: Create a small LLM app that can analyze and summarize legal documents while maintaining privacy.
- Personal Finance Tracker: Develop an LLM tool that helps users manage their finances by analyzing transaction data.
- Health Monitoring Assistant: Build an AI agent that tracks and analyzes personal health data, offering tailored wellness advice.

#### 5. Creating Domain-Specific LLM Applications

Customizing LLMs for specific domains can yield more accurate and relevant results. Consider these project ideas:

- Niche Chatbots: Build a chatbot fine-tuned for a specific industry, such as legal advice or technical support.
- Fine-Tuned Models: Create a fine-tuned version of an existing LLM that focuses on a particular area, such as healthcare or finance.
- Industry-Specific Tools: Develop LLM applications tailored to the needs of specific industries, such as generating marketing copy or technical documentation.

By exploring these project focus segments, you can leverage the power of LLMs to create innovative AI applications. Use the ideas provided as a baseline to develop your own projects and build a strong AI portfolio.

Happy building!