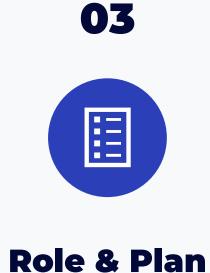
Personal Al Programming Tutor

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Motivation

How to utilize AI for programming education?



ChatGPT

ChatGPT is a natural language processing model based on the GPT (Generative Pre-training Transformer) architecture developed by OpenAl. It is a deep learning model that has been trained on a massive amount of text data to generate coherent and natural language responses to user input.

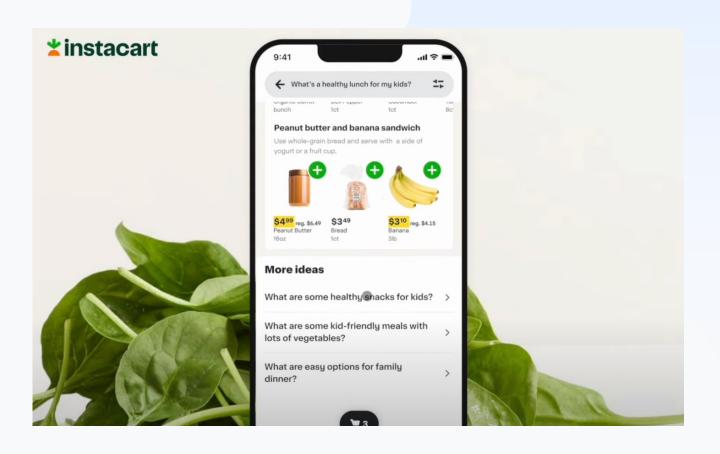
Motivation



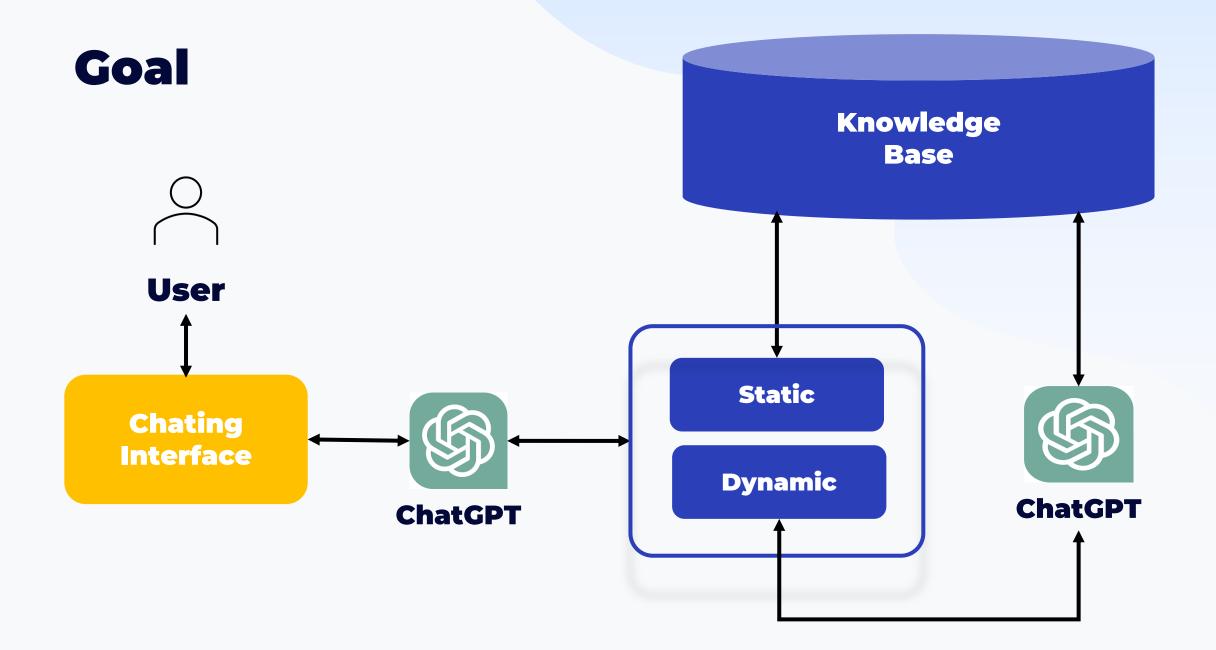
A loop in Python is a control structure that allows the repeated execution of a block of code. There are two types of loops in Python: the `for` loop and the `while` loop. Here's an example of a `for` loop that prints the numbers from 0 to 4: Copy code python for i in range(5): print(i) Output: Copy code In this example, the `for` loop iterates over the sequence of numbers generated by the `range()` function, which starts at 0 and ends at 4 (inclusive). The `print()` function is called in each iteration of the loop, and it prints the current value of the loop variable `i`.

Motivation



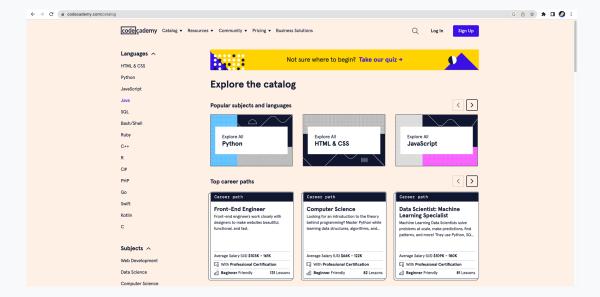


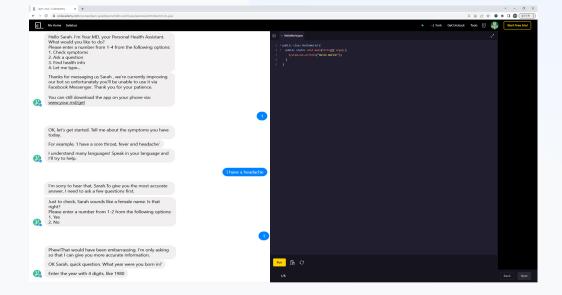
ChatGPT has some limitations as a tutor yet !!!

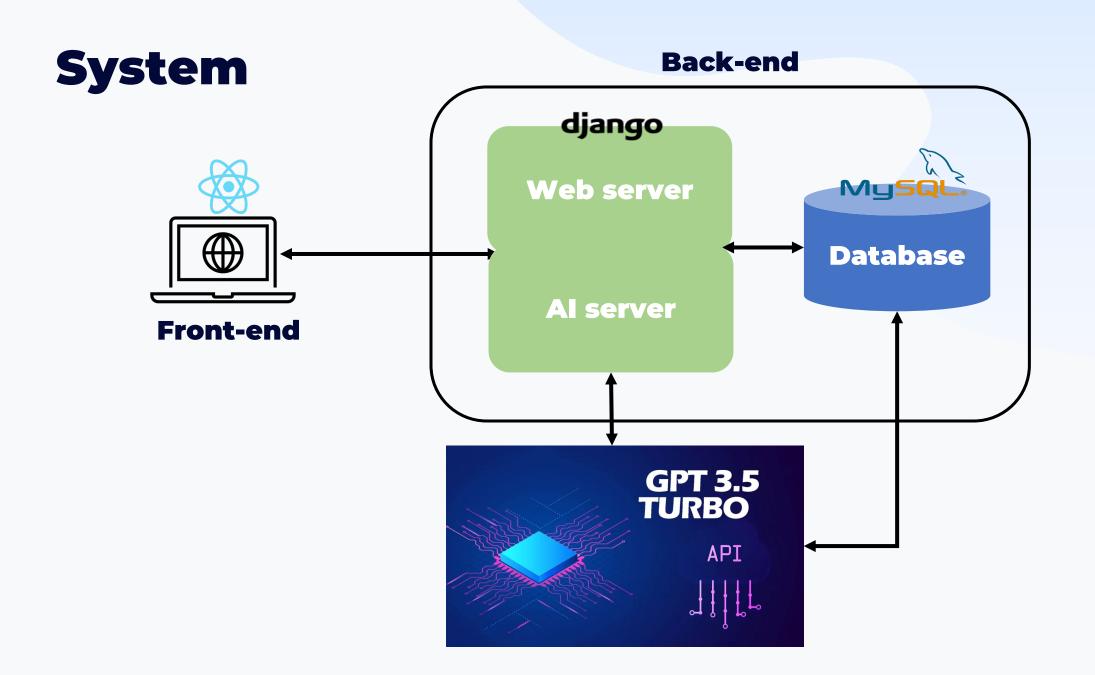


Goal

e.g. codeacademy







System

How to train GPT Model with our custome data ???

Few shot learning

Few-shot learning or few-shot prompting is a prompting technique that allows a model to process examples before attempting a task..

Fine-tuning

Fine-tuning is an approach to transfer learning in which the weights of a pre-trained model are trained on new data.

Role

Back - end Back - end Front - end (Web) (GPT API) Yoo Youngseok Kim Jungsik Jo Yehyun Oh Minjae Kim Myeongsu Kim Soohan

Plan

Task	week6	week 7	week8	week9	week10	week11	week12	week13	week14	week15
Requirement engineering							•			
Architectural Design										
Subsystem Engineering										
Component Testing										
System Integration										
System Testing										

Thanks!