```
# NLP - Natural Language Processing

# LLM - Large Language Model


# GPT-4
# GPT-3.5-turbo
# BERT
# T5

# Steps to LLM Pipeline
# 1. Architecture
#     - Transformer
#     - Tokenization is breaking down sentences into word
#     - Embedding is converting words into numbers

# 2. Method
#     - Next word prediction
#     - The studnents were excited to open their _______ for their teacher: Book
#     - SEP

# 3. Training
#     - RLHF - re-enforcement learning by human feedback
#     - Training and fine-tuning

# 4. Inference
#     - Prompt Engineering
```

```
# !pip install openai

from openai import OpenAI
client = OpenAI(api_key="sk-proj-E7HaFUn1dt2nw376tc38T3BlbkFJexAhA8oHSoPrEF85m7YM")

response = client.chat.completions.create(
  model="gpt-4o",
  messages=[
      {
          "role": "system",
          "content": "You are a helpful assistant."
      },

      {
          "role": "user",
          "content": "In less than 256 token, explain solidity"
      }
  ],
  temperature=1,
  max_tokens=256,
  top_p=1,
  frequency_penalty=0,
  presence_penalty=0
)

print(response)
```

```
ChatCompletion(id='chatcmpl-9fQEx3Hxr8EzM9wOI3RqRNMwNXkbO', choices=[Choice(finish_reason='s
```

```
message = response.choices[0].message.content
print(message)
```

```
Solidity is a high-level, statically-typed programming language specifically designed for de

Key features include:
1. **Contract Orientation**: Everything in Solidity revolves around contracts, akin to class
2. **Data Types**: Supports multiple data types including integers, booleans, strings, and c
3. **Functions and Modifiers**: Functions can be declared with visibility specifiers (public
4. **Events and Logging**: Events are used to log data on the blockchain, which external app
5. **Truffle and Remix**: Common development environments that simplify coding, testing, and

Solidity is integral to the development of decentralized applications, offering robust tools
```

Start coding or generate with AI.