



# GUVI GPT Model LLM Project

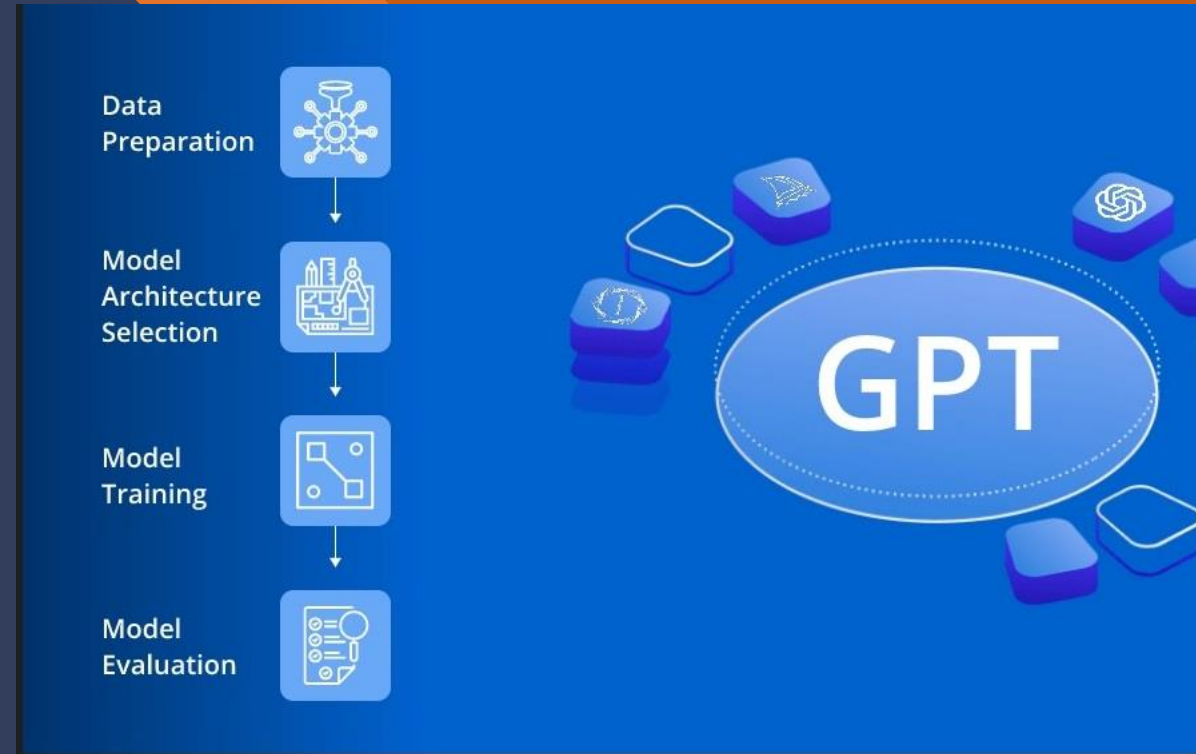
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# Project Overview

- Project Name: GUVI GPT Model
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- Date: 29.06.2024

# Introduction

Welcome to the project documentation for the GUVI GPT model! This project focuses on training and deploying a GPT (Generative Pre-trained Transformer) model using data sourced from various websites. The goal of this project is to demonstrate proficiency in natural language processing (NLP) techniques and showcase the capabilities of GPT models in text generation tasks.





# Project Objectives

The primary objectives of this project are: 1. Data Collection: Gather relevant data from multiple sources to train the GPT model. 2. Model Training: Fine-tune the GPT model on the collected dataset to optimize performance for specific tasks. 3. Deployment: Deploy the trained model to a platform for interactive text generation. 4. Documentation: Create comprehensive documentation outlining the project's purpose, methodology, and results.



# Methodology

## Data Collection

The dataset for training the GPT model was collected from various websites related to GUVI. The data was preprocessed to remove noise and ensure consistency in formatting.

## Model Training

The GPT model architecture used for this project is based on the Transformer architecture. Training involved:

- Tokenization of text data using Hugging Face's tokenizers.
- Fine-tuning the pre-trained GPT model on the collected dataset using PyTorch.
- Optimization of hyperparameters such as learning rate, batch size, and number of training epochs.

# Deployment

The trained GPT model was deployed using Hugging Face's model repository. Users can interact with the model through a web interface or API to generate text based on user input.

## Result

### Performance Metrics

- Text Generation Quality: Evaluated based on coherence, relevance, and grammatical correctness of generated text.
- Throughput: Measurement of the model's ability to generate text efficiently in real-time

## Use Cases

The GUVI GPT model can be used for:

- Creative writing assistance •

Content generation for blogs or social media

- Educational tools for generating quiz questions and answers

## Conclusion

The GUVI GPT model project demonstrates the successful implementation of advanced NLP techniques using a GPT architecture. By leveraging state-of-the-art technologies and methodologies, this project highlights the potential of AI models in generating human-like text outputs.

## Future Scope

- Enhanced Training: Further fine-tuning the model with larger datasets for improved performance.
- Integration: Integration with other AI services for enhanced functionality.
- User Interface: Enhancing the user interface for better user experience and accessibility.

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Thank You