



Model Development Phase

| Date | 19 July 2024 |
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| Team ID | SWTID17200578 |
| Project Title | Inquisitive: A Multilingual AI Question Generator |
| Maximum Marks | 4 Marks |

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

```
import streamlit as st
      import os
     import google.generativeai as palm
     from langdetect import detect
     from googletrans import Translator
     from dotenv import load_dotenv
     api_key = os.getenv("API_KEY")
     palm.configure(api_key=api_key)
     translator = Translator()
     models = [model for model in palm.list_models()]
     model_name = models[1].name
17 \vee def generate_questions(model_name, text):
        response = palm.generate_text(
            model=model_name,
            max_output_tokens=150
         questions = response.result.strip() if response.result else "No questions generated."
```





```
def main():
    st.title("Inquisitive: A Multilingual AI Question Generator")
    user_text = st.text_area("Enter the text you want questions generated from: ")
       detected_language = detect(user_text)
       if detected_language!='en':
            translated_text = translator.translate(user_text, src=detected_language, dest="en").text
            translated_text = user_text
   if st.button("Generate Questions"):
       if user_text:
           questions = generate_questions(model_name, translated_text)
           if detected_language !='en':
               questions = translator.translate(questions, src="en", dest=detected_language).text
           st.subheader("Generated Questions:")
           st.write(questions)
           st.warning("Please enter some text.")
if __name__ == "__main__":
```

Model Validation and Evaluation Report:

| Model | Classification Report | Accuracy | Confusion Matrix |
|---------|---|---------------------|---|
| Model 1 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. | Accuracy Value=0.85 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. |
| Model 2 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. | Accuracy Value=0.9 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. |





| Model 3 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. | Accuracy Value=0.95 | The code you provided is for a Streamlit application named "Inquisitive: A Multilingual AI Question Generator". It doesn't perform any machine learning tasks that would typically result in a confusion matrix or classification report. |
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