Mini Project Logbook

Question Paper Generator

**Group Members :**

Subham Hadawle

Pranav Kotkar

Muhammad Faayez

Mayur Pimpude

**Supervisor/Guide**:

Mr. Amit Singh



**Department of Artificial Intelligence and Data Science**

Vivekanand Education Society’s Institute of Technology

Academic Year: 2022-2023

**Department of Artificial Intelligence and Data Science**

**2022-2023**

**Group No**: 9

**Project Title**: Question Paper Generator

**Guide**: Prof. Amit Singh

**Students Details**:

|  | Member-1 | Member-2 | Member-3 | Member-4 |
| --- | --- | --- | --- | --- |
| Roll No | 17 | 30 | 35 | 43 |
| Name | Subham Hadawle | Pranav Kotkar | Muhammad Faayez | Mayur Pimpude |
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Course Outcomes

**Course Outcome:**

1. Identify problems based on societal /research needs.
2. Apply Knowledge and skill to solve societal problems in a group.
3. Develop interpersonal skills to work as a member of a group or leader.
4. Draw the proper inferences from available results through theoretical/ experimental/simulations.
5. Analyse the impact of solutions in societal and environmental context for sustainable development.
6. Use standard norms of engineering practices
7. Excel in written and oral communication.
8. Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.
9. Demonstrate project management principles during project work.

**Proposed Schedule for Mini Project**

| **Week/ Date** | **Content** | **Time Required** | **Remark** | **Signature** |
| --- | --- | --- | --- | --- |
| Aug 11, 2022 | Topic discussion | 4 hours |  |  |
| Aug 18, 2022 | Topic Selection: Decide the topic based primarily on NLP | 3 hours |  |  |
| Aug 23, 2022 | Topic finalisation Question paper generator | 2 hours |  |  |
| Aug 25, 2022 | Literature reading and research from different papers and sources. | 10 hours |  |  |
| Aug 30, 2022 | Dataset research for OCR in kaggle | 3 hours |  |  |
| Sep 13, 2022 | Search for appropriate algorithms. | 4 hours |  |  |
| Sep 15, 2022 | Choosing the correct algorithm for best results. | 1 hour |  |  |
| Sep 20, 2022 | Researching on different transformers | 3 hours |  |  |
| Sep 22, 2022 | Studying the T5 algorithm in transformers. | 2 hours |  |  |
| Sep 27, 2022 | OCR dataset search and selection. | 1 hour |  |  |
| Sep 29, 2022 | Cleaning and preprocessing the dataset | 3 hours |  |  |
| Oct 4, 2022 | Partial model creation | 7 hours |  |  |
| Oct 6, 2022 | Model testing | 1 hour |  |  |
| Oct 11, 2022 | UI designing and building | 4 hours |  |  |
| Oct 18, 2022 | Android app creation | 4 hours |  |  |

**2022-2023**

**Mini-Project Progress Report**

**Sem – 3**

**Project Gr No**: 9

**Title**: Question Paper Generator

**Guide**: Mr. Amit Singh

| **Roll No** | **Name of Project Member** |
| --- | --- |
| 17 | Shubham Hadawle |
| 30 | Pranav Kotkar |
| 35 | Muhammad Faayez |
| 43 | Mayur Pimpude |

| **Week/Date** | **Work Done** | **Students Present** | **Sign of Guide** |
| --- | --- | --- | --- |
| 1 | Topic discussion and search   * Type of ship detection from satellite image. * Question paper generator | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Topic discussion and search   * IPC prediction from case * CO2 emission from travelling. * ChatBot for depression detection and treatment. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| 2 | Study Natural Language Processing and its basics | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Shortlist a topic based on NLP   * IPC prediction from case * Question paper generator | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| 3 | Research on the shortlisted topics. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Finalise on one of the shortlisted topics i.e.  Question paper generator. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| 4 | Research on the literature of the chosen topic. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Look through different research papers and sources to study. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| **Week/Date** | **Work Done** | **Students Present** | **Sign of Guide** |
| 5 | Searching for different potential algorithms and shortlisting them. Transformer BERT/GPT3/T5 | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Study different algorithms BERT/T5 | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 6 | Choose the algorithm which could give the best results and is most accurate. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Study the T5 algorithm in a transformer. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 7 | Select an OCR dataset and select one of them. | Mayur Pimpude |  |
| Shubham Hadawle |
| Pranav Kotkar |
| Muhammad Faayez |
| Select a dataset from Kaggle for character recognition from paper. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 8 | Cleaning the data by removing distorted images | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Preprocessing the data by converting the image to grayscale. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 9 | Created a partial model with T5 transformer one word answer question generator. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Tested the created model by giving different input paragraphs. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 10 | Design and create the User Interface blueprint for the project. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Implement the basic User Interface using Gradio app. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| 11 | Design a companion android app. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |
| Create the android app in java. | Mayur Pimpude |  |
| Shubham Hadawle |
| Muhammad Faayez |
| Pranav Kotkar |