## Responsible-ai-fairness Setup Document

## 1)Prerequisites:

- Python 3.9 and above
- MongoDB

## 2)Installation Steps

Configurations

- Clone the repository
- Create a virtual environment using the command python -m venv <name> and activate it by going to Scripts and running the command activate.bat
- Setup the DB
  - Go to folder responsible-ai-fairness\responsible-ai-fairness\docs\db\_scripts
  - Add the documents present in the Json files in the collection llm\_connection\_credentials and llm\_analysis.
- Install dependencies.
  - Go to responsible-ai-fairness\responsible-ai-fairness\requirements and run pip install -r requirements.txt

Sample Configurations

- Configuration
  - o Add required environment variables

| Configurations                               | Sample Configurations                                      |
|----------------------------------------------|------------------------------------------------------------|
| Header Configurations:                       | Pragma: no-cache                                           |
| allow_methods = "\${allow_methods}"          | Vary_header: Origin                                        |
| allow_origin = "\${allow_origin}"            | X-Content-Type-Options: nosniff                            |
| content_security_policy =                    | X-Frame-Options: SAMEORIGIN                                |
| "\${content_security_policy}"                | XSS_header: 1; mode=block                                  |
| cache_control = "\${cache_control}"          | allow_methods: '["GET", "POST"]'                           |
| XSS_header = "\${xss_header}"                | allow_origin: '["http://localhost:8000/"]'                 |
| Vary_header = "\${vary_header}"              | cache_control: no-cache; no-store; must-revalidate         |
| X-Frame-Options = "\${X-Frame-Options}"      | content_security_policy: 'default-src "self";img-src data: |
| X-Content-Type-Options = "\${X-Content-Type- | https:;object-src "none";script-src                        |
| Options}"                                    |                                                            |
| Pragma = "\${Pragma}"                        |                                                            |
|                                              |                                                            |
| Database Configurations:                     | DB_NAME_WB="rai_database"                                  |
| DB_NAME = "\${dbname}"                       | DB_NAME = "rai_database"                                   |
| DB_NAME_WB = "\${dbname_wb}"                 | DB_USERNAME="user"                                         |
| DB_USERNAME = "\${username}"                 | MONGO_PATH="mongodb://user:123mongo@localhost:             |
| DB_PWD = "\${password}"                      | 27071/?authMechanism=DEFAULT"                              |
| DB_IP = "\${ipaddress}"                      | DB_TYPE="mongo"                                            |
| DB_PORT = "\${port}"                         |                                                            |
| MONGO_PATH="mongodb://\${DB_USERNAME}:\${D   |                                                            |

| B_PWD}@\${DB_IP}:\${DB_PORT}/"                |  |
|-----------------------------------------------|--|
| DB_TYPE="\${dbtype}"                          |  |
| _ , ,, ,                                      |  |
| Optional Configurations:                      |  |
| # blob containers                             |  |
| Dt_containerName = "\${dt_containerName}"     |  |
| Model_CONTAINER_NAME =                        |  |
| "\${model_containerName}"                     |  |
| HTML_CONTAINER_NAME =                         |  |
| "\${html_containerName}"                      |  |
| # blob storage api's                          |  |
| AZURE_UPLOAD_API = "\${azure_upload_api}"     |  |
| AZURE_GET_API = "\${azure_get_api}"           |  |
| # telemetry flag                              |  |
| tel_Falg = "\${tel_Falg}"                     |  |
| # Mixtral Apis                                |  |
| MIXTRAL_URL="\${mixtral_url}"                 |  |
| MIXTRAL_ACCESS_TOKEN="\${mixtral_access_token |  |
| }"                                            |  |
| # telemetry url                               |  |
| FAIRNESS_TELEMETRY_URL =                      |  |
| "\${fairness_telemetry_url}"                  |  |
| # report api url                              |  |
| REPORT_URL = "\${reporturl}"                  |  |
| # gemini api key                              |  |
| GEMINI_API_KEY="\${gemini_api_key}"           |  |
| #openai api key                               |  |
| OPENAI_API_KEY="\${openai_api_key}"           |  |
|                                               |  |

- Run the application
  - o Go to responsible-ai-fairness/responsible-ai-fairness/src
  - o Run python main\_api.py

## Swagger URL: http://localhost:8000/api/v1/fairness/docs#/

