**Project Charter Document**



**Project Name:** Text emotional classification - LLM

**Department:** Emotional Intelligence and User Insights Department.

**Focus Area:** Emotion Analysis

**Product/Process:** Data Analysis



**Prepared By**

|  |  |
| --- | --- |
| **Document Owner(s)** | **Project/Organization Role** |
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**Project Charter Version Control**

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| **Version** | **Date** | **Author** | **Change Description** |
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# PROJECT CHARTER PURPOSE

The project charter defines the scope, objectives, and overall approach for the work to be completed. It is a critical element for initiating, planning, executing, controlling, and assessing the project. It should be the single point of reference on the project for project goals and objectives, scope, organization, estimates, work plan, and budget. In addition, it serves as a contract between the Project Team and the Project Sponsors, stating what will be delivered according to the budget, time constraints, risks, resources, and standards agreed upon for the project.



# PROJECT EXECUTIVE SUMMARY

* Project goals : Candidates loss jobs due to poor english and poor Emotions show off
* Objectives : Analysis emotions, grammar, filler words, and informal to formal words
  + Data prepossessing : Apply normalization techniques to standardize data values, such as text normalization and tokenization, to ensure uniformity across the dataset.
* Scope :

Research and Planning : Conduct thorough research on existing methodologies and technologies relevant to emotion detection, grammar correction, and language conversion.

Data Collection and Preparation: Gather diverse datasets for emotions, grammar mistakes, and informal-to-formal language pairs using prompt engineering and AI techniques.

Model Development: Design and implement a Language Learning Model (LLM) capable of handling multiple tasks, including emotion detection, grammar correction, and language conversion.

Evaluation and Validation: Assess the model's performance using appropriate evaluation metrics such as precision, recall, F1-score, and BLEU/ROUGE scores.

Deployment and Integration: Define the deployment infrastructure and environment requirements, including hardware specifications and software dependencies.

* Assumptions :
* Risks :
* Costs :
* Timeline: 6/05/2024 – 6/06/2024
* Approach : Design and implement a Language Learning Model (LLM) capable of handling multiple tasks, including emotion detection, grammar correction, and language conversion.Utilize state-of-the-art deep learning architectures and pre-trained models to bootstrap the development process.Incorporate domain knowledge and linguistic rules to improve the model's performance and accuracy.
* Organization :



# PROJECT OVERVIEW



# PROJECT SCOPE

## Goals and Objectives

|  |  |
| --- | --- |
| **Goals** | **Objectives** |
| * Candidates loss jobs due to poor english and poor Emotions show off | * Analysis emotions, grammar, filler words, and informal to formal words |

## Project Deliverables

|  |  |
| --- | --- |
| **Milestone** | **Deliverable** |
| * Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, | * Deliverable 1.1—Identifying Constraints and design the project architecture. * Deliverable 1.2—Explore various public forums to collect relevant data. |
| * Prompt engineering,   Data Preparation. | * Deliverable 2.1--- Collect data through various AI platforms * Deliverable 2.2--- Data Preparation |
| * Model Evaluation, tuning and insights, Deployment | * Deliverable 3.1— Model Evaluation, tuning and insights. * Deliverable 3. 2— Deployment |
| * Show case and review, Final Presentation and documentation, Handover and KT. | * Deliverable4.1 – show case and review * Deliverable4.2 – Final Presentation and documentation * Deliverable4.3 – Handover and KT |

## Deliverables Out of Scope

* designs
* mobile app

## Project Duration (start date: 15/09/2021 End date: 15/10/2021)

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Milestone** | **Date Estimate** | **Deliverable(s) Included** | **Confidence Level** |
| * Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, | [06/05/2024]  -  [12/05/2024] | * Deliverable 1.1—Identifying Constraints and design the project architecture. * Deliverable 1.2—Explore various public forums to collect relevant data. | [High] |
| * Data Preparation.,   Prompt engineering | [13/05/2024]  -  [20/05/2024] | * Deliverable 2.1--- Collect data through various AI platforms * Deliverable 2.2--- Data Preparation | [High] |
| * Model Evaluation, tuning and insights, Deployment | [21/05/2024]  -  [30/05/2024] | * Deliverable 3.1— Model Evaluation, tuning and insights. * Deliverable 3. 2— Deployment | [High] |
| * Show case and review, Final Presentation and documentation, Handover and KT. | [31/05/2024]  -  [06/05/2024] | * Deliverable4.1 – show case and review * Deliverable4.2 – Final Presentation and documentation * Deliverable4.3 – Handover and KT | [Medium] |



# PROJECT CONDITIONS

## Project Assumptions

* Work on data which is extracted from public sources.
* Can create a web API by using flask or streamlit.
* Cloud deployment should be done.
* **Robust Tested:** Application should be tested for noise data also.

## Project Issues

**Priority Criteria**

1 − High-priority/critical-path issue; requires immediate follow-up and resolution.

2 − Medium-priority issue; requires follow-up before completion of next project milestone.

3 − Low-priority issue; to be resolved prior to project completion.

4 − Closed issue.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Date** | **Priority** | **Owner** | **Description** | **Status & Resolution** |
| 1 |  | High |  |  |  |
| 2 |  | High |  |  |  |

## Project Risks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Risk Area** | **Likelihood** | **Risk Owner** | **Project Impact-Mitigation Plan** |
| 1 | [Project Risk] | [High/Medium/Low] |  |  |
| 2 | [Project Risk] | [High/Medium/Low] |  |  |

## Project Constraints



# Project Structure Approach



# Project Team Organization Plans

|  |
| --- |
| * Deliverable 1.1— * Deliverable 1.2— * Deliverable 1.3— |
| * Deliverable 2.1— * Deliverable 2.2— |
| * Deliverable 3.1— * Deliverable 3. 2— |
| * Deliverable4.1 – * Deliverable4.2 – * Deliverable4.3 – |



# PROJECT REFERENCES

|  |  |
| --- | --- |
| **Milestone** | **Deliverable** |
| [ |  |
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# APPROVALS

**Prepared by** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Manager

**Approved by** Sharat Chandra M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Sponsor

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Executive Sponsor

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Client Sponsor



# APPENDICES

## Document Guidelines

## Project Charter Document Sections Omitted

