**Project Charter Document**



**Project Name:** Cost Prediction for New course for EdTech Company

**Department:** Education

**Focus Area:** Market Analysis

**Product/Process:** Predictive Analysis



**Prepared By**

|  |  |
| --- | --- |
| **Document Owner(s)** | **Project/Organization Role** |
| Sahil Arora | To predict cost of a product with a suitable ML algorithm and complete project with utmost accuracy |
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**Project Charter Version Control**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Change Description** |
| 1.0 | 07/7/2022 |  | Document created |
|  |  |  |  |

**TABLE OF CONTENTS**

[**1**](#_heading=h.3whwml4) **PROJECT CHARTER PURPOSE 3**

[**2**](#_heading=h.2bn6wsx) **PROJECT EXECUTIVE SUMMARY 3**

[**3**](#_heading=h.qsh70q) **PROJECT OVERVIEW 3**

[**4**](#_heading=h.3as4poj) **PROJECT SCOPE 4**

[4.1](#_heading=h.1pxezwc) Goals and Objectives 4

[4.2](#_heading=h.49x2ik5) Project Deliverables 4

[4.3](#_heading=h.2p2csry) Deliverables Out of Scope 4

[4.4](#_heading=h.147n2zr) Project Duration 4

[**5**](#_heading=h.3o7alnk) **PROJECT CONDITIONS 5**

[5.1](#_heading=h.23ckvvd) Project Assumptions 5

[5.2](#_heading=h.ihv636) Project Issues 5

[5.3](#_heading=h.32hioqz) Project Risks 5

[5.4](#_heading=h.1hmsyys) Project Constraints 5

[**6**](#_heading=h.41mghml) **Project Structure Approach 6**

[**7**](#_heading=h.2grqrue) **Project Team Organization Plans 6**

[**8**](#_heading=h.vx1227) **PROJECT REFERENCES 6**

[**9**](#_heading=h.3fwokq0) **APPROVALS 6**

[**10**](#_heading=h.1v1yuxt) **APPENDICES 8**

[10.1](#_heading=h.4f1mdlm) Document Guidelines 8

[10.2](#_heading=h.2u6wntf) Project Charter Document Sections Omitted 8

# 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 – Price prediction for Edtech course
* Objectives – Predict course prices
* Scope – Increasing the sale of Edtech course
* Assumptions – Similar courses with same features should be compared
* Risks – Wrong prediction would result in loss of business
* Costs – Manpower , Office etc
* Timeline – 1 month
* Approach – CRISP-ML(Q)



# PROJECT OVERVIEW

To provide accurate prediction of the ed tech courses, depending on the features, place, target , duration etc. Prices needs to be competitive due to cut throat competition in the ed tech industry.



# PROJECT SCOPE

## Goals and Objectives

|  |  |
| --- | --- |
| **Goals** | **Objectives** |
| * To predict the course prices for an edtech course. | * Make the course price as competitive as possible due to very high competition in edtech, and maximize the edtech course sales and profit. |

## Project Deliverables

|  |  |
| --- | --- |
| **Milestone** | **Deliverable** |
| * Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, Data Preparation. | * Deliverable 1.1—Identifying Constraints and design the project architecture. * Deliverable 1.2—Explore various public forums to collect relevant data. * Deliverable 1.3— Data Preparation |
| * EDA and Descriptive Analytics, Model Building prediction model. | * Deliverable 2.1— EDA and Descriptive Analytics * Deliverable 2.2— Model Building for prediction. |
| * 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:03/06/2022 End date: 09/07/2022)

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Milestone** | **Date Estimate** | **Deliverable(s) Included** | **Confidence Level** |
| * Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, Data Preparation. | [07/06/2022]  -  [21/06/2022] | * Deliverable 1.1—Identifying Constraints and design the project architecture. * Deliverable 1.2—Explore various public forums to collect relevant data. * Deliverable 1.3— Data Preparation | [High] |
| * EDA and Descriptive Analytics, Model Building for prediction | [22/06/2022]  -  [28/06/2022] | * Deliverable 2.1— EDA and Descriptive Analytics * Deliverable 2.2— Model Building for prediction. | [High] |
| * Model Evaluation, tuning and insights, Deployment | [29/06/2022]  -  [05/07/2022] | * Deliverable 3.1— Model Evaluation, tuning and insights. * Deliverable 3. 2— Deployment | [High] |
| * Show case and review, Final Presentation and documentation, Handover and KT. | [07/07/2022]  -  []10/07/2022 | * 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

Actual data is not known.

# Project Structure Approach

CRISP-ML(Q) Methodology

1. Business & Data Understanding
2. Data Pre- processing
3. Model building
4. Model tuning
5. Model Deployment
6. Monitoring and maintenance



# 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** |
| [ |  |
|  |  |
|  |  |

# APPROVALS

**Prepared by** \_SAHIL ARORA

Project Manager

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

Project Sponsor

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

Executive Sponsor

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

Client Sponsor



# APPENDICES

## Document Guidelines

## Project Charter Document Sections Omitted

