E-Learning

Gabriel Medina Galicia

Document Version

05-11-2022 – Gabriel Medina Galicia – Initial Draft Document

06-11-2022 – Gabriel Medina Galicia – Adding “Executive Summary“ details and data discovery section

(beginning of business understanding phase)

**Executive Summary**

LU LTD is interested in knowing how the Cloud Computing course has performed throughout all the runs to be able to increase the number of new enrolments and preserving the quality of the course at the same time.

Assumptions

Learners United LTD is a fictional company that serves as the customer for example purposes.

GolfMike Technologies LTD is a fictional company that serves as the fictional contractor that is going to be perform the Exploratory Data Analysis and Data Mining project

Objectives

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Success Criteria

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**Inventory of Resources**

**Personnel**

GolfMike Technologies LTD Staff (1)

**Data**

We have been provided with datasets for each course run. For each course we have CSV files for:

Archetype Survey Responses (cyber-security-n\_archetype-survey-responses.csv)

Enrolments (cyber-security-n\_enrolments.csv)

Leaving Survey Responses (cyber-security-n\_leaving-survey-responses.csv)

Question Responses (cyber-security-n\_question-response.csv)

Step Activities (cyber-security-n\_step-activity.csv)

Weekly Sentiment Survey Responses (cyber-security-n\_weekly-sentiment-survey-responses.csv)

**Computing Resources**

Newcastle University Computer Clusters

1 Personal Computer

**Technology Stack (Software)**

R (latest distribution up to date)

ProjectTemplate (latest distribution up to date)

GGplot (latest compatible version with the latest distribution of R)

Tidyverse (latest compatible version with the latest distribution of R)

RMarkdown (latest distribution up to date)

RStudio (latest distribution up to date)

**Requirements**

An MVP (Minimal Viable Product) must by delivered by 18 November 2022 16:30 BST

**Assumptions**

(list here any assumption about the data)

Staff works 4hours a day, 20 hours per week.

**Constraints**

Not all students enrolled in this course have disclosed their demographic data.

Total development hours to deliver: 60 hours (4 hours per week)

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Risk and contingencies

In the event of any issue that might delay the delivery of the MVP, GolfMike staff should be in contact immediately with Student Services to be able to negotiate a later delivery date.

Terminology

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Cost Benefit

(NA)

(end of business understanding phase)

Enrolments

Understanding current data set

We are given data of

Enrolments

Current state

Predicted enrolments

Model prediction

Reasons for leaving the course

Leaving survey overview

Types of learners (Archetypes)

Leaving by archetypes and reasons

Actions to be taken