Dear Intern

Interim project report is an inherent component of your internship. We are enclosing a reference table of content for the interim project report.

The key objective of this report is for you to capture how far you have got in completing the internship work against milestones expected to be achieved within a specific duration and seek the mentor’s feedback. Depending on the internship project and your progress (IT/Non-IT, Technical/Business Domain), you may choose to include or exclude or rename sections or leave some sections blank from the table of content mentioned below. You can also add additional sections. You can refer the project presentation to view the milestones related to your internship project. Please populate milestone# (1 / 2 / 3) and the milestone description in the interim project report based on the milestone for which you are submitting the interim project report.

You can refer the project presentation to view the milestones related to your internship project.

|  |  |
| --- | --- |
| Internship Project Title | Classification Model-Build a Model that classifies the side effects of a Drug. |
| Name of the Company | TCS ION |
| Name of the Industry Mentor | Debashis Roy |
| Name of the Institute | ICT Academy of Kerala |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Start Date | End Date | | Total Effort (hrs.) | | Project Environment | Tools used |
| 19/06/2023 | 23/06/2023 | | 21hrs | | Jupyter Notebook | MS Excel,Jupyter |
| Milestone # | 1 | Milestone: | | Day 5: Student should be able to create, clean and sanitize data and preprocess the data. | | |

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**ACKNOWLEDGEMENT**

The Internship on topic **“Classification Model-Build a Model that classifies the side effects of a Drug.”** was taken as a part of the course completion of Data Science and Analytics of ICT Academy, Kerala.

The internship opportunity I had with TCS - iON was a great chance for learning and professional development. I take this opportunity to express my profound gratitude and deep regards to **Debashis Roy**, Industry Mentor ,for his exemplary guidance, monitoring and constant encouragement throughout the course of this project.

Last but not the least, I thank God the almighty, for leading us straight to success of the Internship project with his blessings.

**OBJECTIVE**

The main objective of this project is to build a classification model that classifies the side effects of a particular drug by age, gender, and race. The model needs to have a good amount of accuracy and meet industry standards.

**INTRODUCTION**

The project guidelines clearly mentioned that we are expected to create a model that classifies the trial data of a drug based on their age, gender and race. We also entrusted to create a dataset of 4, 00,000 patients containing the following details for each patient based on various attributes according to the data. At the end of the project we should be able to create a dataset, clean the dataset, sanitize it and preprocess the data to perform data partitioning and handle missing values. Create training and testing sets. Build a classifier and fit the data to the model.