**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI**

**SECOND SEMESTER 2022-23**

SSZG628T **DISSERTATION**

**Dissertation Outline**

**BITS ID No. 2021mt12266 Name of Student:** SAQUIB

**Name of Supervisor: Srihari Pudu**

**Designation of Supervisor**: Lead Engineer at Chegg India pvt. ltd.

**Qualification and Experience:**10 Years, B.tech

**E- mail ID of Supervisor :** pnaidu@chegg.com

**Topic of Dissertation**: **Design of Software Test Automation Framework**

**Name of First Examiner:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Designation of First Examiner**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Qualification and Experience: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E- mail ID of First Examiner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name of Second Examiner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Designation of Second Examiner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Qualification and Experience:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**E- mail ID of Second Examiner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Signature of Student) (Signature of Supervisor) Date:06-Jan-2023

**The Dissertation Outline should contain the following:**

**Student details:**

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**Date** 06-Jan-2023

**Dissertation Title :Design of Software Test Automation Framework**

**Supervisor details:**

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| **Name of Supervisor** | **Srihari Pudu** |
| **Designation of Supervisor** | Lead Engineer at Chegg India pvt. ltd. |
| **Qualification and Experience** | 10 + years of Experience |
| **E- mail ID of Supervisor** | pnaidu@chegg.com |
| **Problem statement:** |  |

Software testing growing rapidly due to the complexity of the application, rich and advance feature incorporated in each release cycle of the software.The Sarcasm analysis is a technique or linguistic phenomenon to identify people opinion, sentiments, attitude and emotions towards any product, event, organizations and service etc.

With the increase in the use of the smart mobile devices and with the facility of the high speed internet, users are able to use the social media sites like facebook, twitter, whatsapp, instagram etc.

The goal of this project is to identify sarcasm in plain text. The project plans to exploit the property of a general sarcastic statement of possessing contrasting sentiments by using Natural Language processing. The project aims at training a deep learning model to detect if a given statement is a sarcastic or regular.

**Objective of the project:**

* To determine whether the attitude of the mass is positive or negative towards the subject of interest.
* To identify whether the statement is sarcastic or non sarcastic.

**Uniqueness of the project :**

* Use of transformer architecture to detect sarcasm.

**Benefit to the organization :**

* It can be integrated with chatbot.
* It can be deployed on discussion forum.

**Scope of work :**

* Collecting data set from multiple sources.
* Literature survey on the existing work.
* EDA on the dataset to visualize different keywords.
* Building deep learning models(RNN, LSTM, Transformer based model)
* Evaluating performance of multiple model and selecting the best one.
* Deployment of model and web app development.