SIEMENS

Siemens Technology and Services Private Limited.

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Your Letter	
Our reference	ESS/STSPL/WR /PUN
Date	25.11.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. KAVIYA DHARSHINI G completed her internship at Siemens Technology and Services Private Limited from 18th July 2022 to 2nd September 2022 at Pune location.

She has shown good commitment to the assigned work and has displayed keen interest in learning new concepts. She has contributed ardently in the assigned activities throughout her training with us.

We are pleased with the performance of KAVIYA DHARSHINI G during her training with us and trust that she will display similar level of commitment and enthusiasm in all her future endeavors.

We wish her All the Very Best.

Yours faithfully,

Siemens Technology and Services Private Limited.

Authorized signatory

INTERNSHIP REPORT

ACADEMIC YEAR: 2022-2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution affiliated to Anna University)

COIMBATORE-641013

Submitted by,

Name: KAVIYA DHARSHINI G
REG NUMBER:2017110

Company Name: Siemens Technology and Services Private Limited

Domain Name : Data Analytics

About Company:

Siemens Technology and Services Private Limited (STSPL) is the Indian subsidiary of German multinational engineering and electronics conglomerate Siemens that focuses on IT and management services. The subsidiary is split into four units: Corporate Technology India, Siemens Corporate Finance and Controlling, Global Shared Services, and Siemens Management Consulting.

PROJECT:

The Project deals with controlling the signal for autonomous trains in France.

Internship Duration: 45 Days from 18th July 2022 to 2nd September 2022

Worked with some of the tools used to Analyse data:

- Grafana
- Kafka
- Fluentbit
- PostgreSQL

Grafana:

- It is an open source web application for visualizing data.
- It is a continuous monitoring tool that helps to visualize real-time data in an application so that we can visualize how it is working in real time.
- A csv file is added as a data source and was visualized using Grafana.
- The details of the train signals were visualized.
- Database(PostgreSQL) is connected to Grafana and data were extracted from it by giving the details of the username, password and database name .

Kafka:

- Kafka is an open source platform developed to handle real time data. Messages that were sent by the producer was analyzed and passed to the consumer.
- The details of the passengers were transferred from one host to another.

Fluentbit:

- Fluent Bit is an open source log shipper and processor, that collects data from multiple sources and forwards it to different destinations.
- The input details of different train signals were collected and processed.

Takeaways from this course:

- Pass data from producer to consumer using Kafka.
- Visualize the given data.
- Work with the database PostgreSQL.
- Import csv file into PostgreSQL to convert to a table and convert a table to the csv file.

Conclusion:

On completion of this Internship, I was able to work with data and analyze it. Also I have gained experience and confidence which might be useful in my career.