

# Summer Internship Report

Submitted

by

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### **DATA SHEET**

|  |   |  |
|--|---|--|
| Roll Number                            | : | AP19110010399, AP19110010523, AP19110010549,<br>AP19110010534                              |
| Name of the student                    | : | KOTAPATI SHYAM SUNDAR, ORUGANTI ARAVIND, PAVANAGUNDLA<br>RUTHIK VENKAT, KOMMINENI GREESHMA |
| Branch & Section                       | : | CSE H  |
| Batch                                  | : | 2019-2023  |
| Type of internship                     | : | INDUSTRIAL TRAINING  |
| Company Name/Institute Name            | : | Andhra Pradesh State Skill Development Corporation (APSSDC)                                |
| Company/Institute Website              | : | <a href="http://engineering.apssdc.in/">http://engineering.apssdc.in/</a>                  |
| Start Date (MM/DD/YYYY)                | : | 06-07-2021   |
| End Date (MM/DD/YYYY)                  | : | 07-15-2021   |
| Duration (No. of days)                 | : | 38   |
| Status of the internship               | : | Completed  |
| Name of internship mentor(SRM Faculty) | : | <b>Prof. Radha Guha</b>  |
| Signature of the student               |   | K. Shyam Sundar<br><i>shyam sundar</i>   |

|                          |   |             |                   |
|--------------------------|---|-------------|-------------------|
| Signature of the student | : | O. Aravind  | <i>O. Aravind</i> |
| Signature of the student | : | P. Ruthik   | <i>Ruthik.P</i>   |
| Signature of the student | : | K. Greeshma | <i>greeshma</i>   |

### **ACKNOWLEDGEMENT**

The internship opportunity I had with APSSDC was a great chance for learning. Therefore, I consider myself as a very lucky individual as I was provided with an opportunity to be a part of it. I am also grateful for having a chance to meet so many wonderful people and professionals who led me through this internship period.

I express my deepest thanks to Corporate Relations & Career Services department At SRM University AP, Amaravati for taking part in useful decision & giving necessary advices and guidance and arranged all facilities to make opportunities easier. I choose this moment to acknowledge his/her contribution gratefully.

My special thanks to Ms. Lavanya Polamarasetty – Organizer and Faculty in APSSDC, Ms. Naga Mounika – Organizer and Faculty in APSSDC and MS. Niharika – Organizer and Faculty in APSSDC for their careful and precious guidance which were extremely valuable for my study both theoretically and practically.

I mark as this opportunity as a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, in order to attain desired career objectives.

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## **I. INTRODUCTION**

“Data Science Using Python Online Internship”. The Program is going to happen from 07-06-2021. This program was organized by the Andhra Pradesh State Skill Development Corporation (APSSDC). The main objective of the program is “To Implement a structured and pragmatic solution to skill and upskill the workforce in the state of A.P. and to increase employability, and promote entrepreneurship in sync with Industrial growth of the State”.

In this program the organization gives the training. This training mainly divided into the three parts

1. Python programming
2. Data Science
3. Machine Learning

## **II. OBJECTIVE OF THE INTERNSHIP**

The main objective of this internship is:

1. Problem solving and programming capability.
2. To extract valuable information for use in strategic decision making, product development, trend analysis, and forecasting.
3. To discover patterns in your data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems.
4. Communicate findings, and effectively present results using data visualization techniques.

### **III. SKILLS ACQUIRED THROUGH THE INTERNSHIP:**

Mainly as discussed above this internship is divided into three segments.

#### **1. Python:**

- Basis of python.
- Data types, Dictionaries, Sets, Functions
- Packages and Modules
- OOPS python
- File Handling
- NumPy and Pandas

#### **2. Data Science:**

- Data cleansing
- Scikit and pre-processing
- Matplotlib
- Seaborn

#### **3. Machine Learning:**

- Supervised
  - Regression: Linear and polynomial regression
  - Classification: Logistic, Decision tree, Random Forest etc.
- Unsupervised
  - K-means cluster

#### **IV. OVERVIEW OF THE PROJECT/WORK CARRIED OUT DURING INTERNSHIP**

We have done a project on the HOUSE PRICE prediction. HOUSE PRICE analysis, visualization and prediction is a machine learning based project using python. HOUSE PRICE data set is collected from the internet. We need to analyse the data set using pandas and NumPy. Visualize the data with matplotlib and seaborn and finally predict the evaluation of the car using the machine learning. During the period of internship, we learnt many concepts regarding data science and machine learning as it is a training internship, we could not do any project. They just given a training regarding this. We had done many tasks.

#### **V. RESULTS/OUTPUT**

By this internship I came to know

1. Better programming solving capacity.
2. Analysing and detecting the problems in the data.
3. Visualization of the data in a problem.

#### **VI. CONCLUSION**

In a nutshell, this internship has been an excellent and rewarding experience. The internship was also good to find out what my strengths and weaknesses are. This helped me to define what skills and knowledge I have to improve in the coming time. I can conclude that there have been a lot I've learnt in this period. I will take the lessons and skills I learned and apply them to my next position.