



Solutions Pvt. Ltd.

Dated-18<sup>th</sup> September, 2019  
GRRAS/JPR/201920/018809

This is to certify that Mr. Sparsh Jain S/O Mr. Manoj Jain, B.tech. (CSE) Department of JECRC Foundation, Jaipur has completed his Industrial Training and Internship in Data Science with Python & R Language with GRRAS Solutions Pvt. Ltd. Jaipur from 1<sup>st</sup> August, 2019 to 18<sup>th</sup> September, 2019.

Main task accomplished:

- Core Python
- Advance Python (Numpy, Scipy, File Handling, Pandas, OpenCV, Matplot Lib., Tkinter)
- R Language
- Bigdata Hadoop
- Data Analytics
- Data Science
- Basics of Linux
- AWS Cloud Integration
- Introduction to Machine Learning

Projects:

- Python: - Guess Game, Bank Application, Text Editor, Database Implementation, Chat Application, Calculator, A Daily Shop Product Enquiry Application, Library Management & Quiz Application.
- Data Science:- Movie Recommendation System, Spam Detection, Housing Price Prediction, Iris Flower Classification by Logistic Regression, Spam Classification
- R Language:- Market Basket Analysis, H1B Visa Petition Analysis
- DBMS server Configuration and Manipulation
- Big Data Hadoop :- Hive Optimization with partitioning and bucketing, sqoop cronjob to take backup of database every day, Sentiment Analysis on Spark, Fetching Data from twitter and storing in HDFS using Flume, Fire house Data processing in Hive Word count application map-reduce.
- Web Development :- Quiz website by Flask, Text Extractor by Django.

During his stay with us he helped us organize several projects and other events under the supervision of Mr. Sachin Yadav and Mr. Rajat Goyal for the academic year 2019-20. He completed the assigned works and projects on time. Overall he was a dedicated intern involved in extracurricular activities with others too.

We wish him good luck in all his future endeavors.

Thank You.

Regards,



Nidhi Sharma

HR & Operation Manager

GRRAS Solutions Pvt. Ltd., Jaipur

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