

TWO MONTHS SUMMER TRAINING REPORT

ON

**MICRO LEARNING IN DATA SCIENCE**

**SUBMITTED BY**

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REGISTRATION NO:11806793

PROGRAMME NAME: BTECH(CSE)

SCHOOL OF COMPUTER SCIENCEENGINEERING

LOVELY PROFESSIONALUNIVERSITY,PHAGWARA.

(MAY-JUNE,2020)

**DECLARATION**

I hereby declare that I have completed my two months summer training at Boad infinity platform from may 3rd,2020 to June 15,2020. I have declare that I have worked full dedication during there 6 weeks of training and my learning outcomes fulfill the requirements of training for the award of degree of B.tech. CSE , Lovely Proffesional University, Phagwara.

Date – 26 Oct. 2020 Name of Student – K Harshavardhan Reddy

Registration no: 11806793

**ACKNOWLEDGEMENT**

I would like to express my gratitude towards my University as well as Board infinity providing me the golden opportunity to do this wonderful summer training regarding Data science , which also helped me in doing a lot of homework and learning. As a result, I came to know about so many new things. So, I am really thank full to them.

Moreover I would like to thank my friends who helped me a lot whenever I got stuck in some problem related to my course. I am really thankfull to have such a good support of them as they always have my back whenever I need.

Also,I would like to mention the support system and consideration of my parents who have always been there in my life to make me choose right thing and oppose the wrong. Without them I could never had learned and became a person who I am now.

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

**Summer Training Certificate By BOARD INFINITY**



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**INTRODUCTION**

Data science self paced course is a complete package that helped me to learn micro learning in data science basic levek. The course curriculm has been divided into 8 weeks, where I practiced questions and I have attempted the assesment tests accordingly. The course offers a wealth of programming challenges that helped me to learn all about data science.

The course was Self placed means I could join the course anytime and all the content will be avilable to me once I get enrolled. There was video lectures to learn form and multiple choice questions to practice.

This course takes me a step closer to becoming a data scientist by offering a subset of topics covered in our data science bootcamp .you willget a well-rounded introduction to the core concepts and technologies taught within in the bootcamp,including basic coding experience.

**TECHNOLOGY LEARNT**

It had 7 units which was further divided into chapters and then topics so during my whole 8 week course I learned the following :

**INTRODUCTION TO DATA SCIENCE**

* **INTRODUCTION TO DATA SCIENCE &FIELD CLARITY.**
* **BUSINESS ANALYTICS WITH EXCEL.**
* **DATA VISUALIZATION AND STORYTELLING USING TABLUE.**
* **ADVANCED SQL.**
* **MATHS FOR DATASCIENCE.**
* **PROGRAMMING FOR DATA SCIENCE.**
* **DEEP DIVE INTO MACHINE LEARNING.**

**BUSINESS ANALYTICS WITH EXCEL**

* **UNDERSTANDING BUSINESS METRICS**
* **INTRODUCTION TO EXCEL.**
* **EXCEL FORMULAS AND FUNCTION.**
* **EXCEL PIVOT TABLES.**
* **ADVANCED VISUALIZATION.**
* **EXCEL DASHBOARDING AND VBA.**
* **DATA WRANGLING ON A REAL-WORLD DATA SET.**

**DATA VISUALIZATION USING TABLEAUE**

* **INTRODUCTION TO DATA VISUALIZATION.**
* **DATA WRANGLING USING TABLEAUE SOFTWARE.**

**ADVANCED SQL**

* **INTRODUCTION TO DATABASES.**
* **BASICS OF SQL.**
* **FILTER DATA USING SQL & SUBQUERIES AND NESTED QUERIES IN SQL.**

**MATHS FOR DATA SCIENCE**

* **INTRODUCTION TO STATISTICS AND PROBABILITY.**
* **HYPOTHESIS TESTING.**
* **INTRODUCTION TO PROBABILITY.**

**PYTHON FOR DATA SCIENCE**

* **INTRODUCTION TO PYTHON PROGRAMING LANGUAGE.**
* **DATA WRANGLING USING NUMPY.**
* **DATA WRANGLING USING PANDAS.**

**DEEP DIVE INTO MANCHINE LEARNING**

* **INTRODUCTION TO MACHINE LEARNING.**
* **INTRODUCTION TO SCIKIT LEARN LIBRARY.**
* **LINEAR MODELS :LINEAR AND LOGISTIC REGRESION.**
* **TREE- BASED MODEL:DECISION TREE AND RANDOM FOREST.**
* **DECISION TREE.**
* **RANDOM FOREST.**
* **CLUSTERING &PROJECT DISCUSSION.**

**REASON FOR CHOOSING DATA SCIENCE**

* **I have choosen my engineering minor as data science so I preferred my summer training as mirco learning in data science which is helpful for my upcomining semesters.**
* **Data science in recent days has created a huge impact in almost all the industries.as a result big data analysis has become top priority in all the orginizations.**
* **In the next few yers demand and requirement for data scientist is becoming more.**
* **There are many training options for data science training .there are different modes of training available like class room ,self paced vedio based training ,MOOCS for data science etc…**

**LEARNING OUTCOMES**

* Apply quantitative modelling and data analysis techniques to the solution of real world business problem ,communicate findings,and effectively present results using data vizulization techniques.
* Recognize and analyze ethical issuses in business related to intellectual property,data security,and privacy.
* Apply ethical practices in everyday business activities and makes well-reasoned ethical business and data management decisions.
* Demonstrate knowledge of statistical data analysis technique utilized in business decision making.
* Apply principles of data science to the analysis of business problems.
* Use data mining software to resolve real-world problems.