# GITAM

Deemed to be University

(Estd. u/s of UGC Act, 1950)

**Laboratory Record Book**

***Name -*** *Allena Venkata Sai Abhishek*

***Department of -*** *DSS* ***Reg. No.*** *122021601009*

***Laboratory*** *DS and ML*  ***Section*** *VDSS*

***Campus -*** *Visakhapatnam*

# GITAM

Deemed to be University

(Estd. u/s of UGC Act, 1950)

**CERTIFICATE**

*Certified that this is the bonafide record of practical work done by Mr Allena Venkata Sai Abhishek with Reg. No. 122021601009 of M.Tech. ………………………DSS branch in*

*…………………DS and ML Laboratory of Department of*

*………CSE…………. during the academic year ………2020-21………*

***Faculty I/c.***

***Date:*** 16/03/2021 ***Head of the Department***

INDEX

|  |  |  |
| --- | --- | --- |
| **S.No** | **Topic** | **Date** |
| **1** | Introduction to Python | **12/29/2020** |
| **2** | Introduction to Python Libraries- Numpy | **12/22/2020** |
| **3** | Introduction to Python Libraries- Pandas | **12/29/2020** |
| **4** | Introduction to Python Libraries- Matplotlib | **12/22/2020** |
| **5** | Perform Data exploration and preprocessing in Python | **12/29/2020** |
| **6** | Implement regularized Linear regression | **3/7/2021** |
| **7** | Implement regularized logistic regression | **2/21/2021** |
| **8** | Implement Naive Bayes classifier for dataset stored as CSV file. | **3/7/2021** |
| **9** | Build model using SVM with different kernels | **3/7/2021** |
| **10** | Build models using Decision trees | **3/16/2021** |
| **11** | Implement K-NN algorithm to classify a dataset. | **3/16/2021** |
| **12** | Build models using different Ensembling techniques | **3/16/2021** |
| **13** | Build model to perform Clustering using K-means  after applying PCA and determining the value of K  using Elbow method. | **3/16/2021** |
| **14** | Basic Visualization in Python | **12/29/2020** |
| **15** | Seaborn | **12/22/2020** |