Final Year Project - UG

**School** **of** **Computing** **Science** **and** **Engineering** **(SCOPE)**

**B.Tech.** **CSE/CPS/AL** **AND** **ML** **Capstone** **Project** **IN** **HOUSE** **Weekly** **Status** **Report** **– Week\_07-** **19.01.2023** **to** **25.01.2023**

**Program:** **B.Tech.** **CSE/CPS/AI** **AND** **ML** **Batch:** **2019-2023** **Course** **Code:** **CSE1904**

**Register No.: 19BAI1090 Name of the Student: ARNAB KARMAKAR Mobile No. 9721866757**

Project Title: STOCK MARKET PREDICTION USING MACHINE LEARNING

Technical Implementation Steps & Programming Tools:

1. Simple Convolutional Neural Network and ANN- construction and generation of synthetic data from user defined input.
2. Python libraries related to Deep Learning (eg. Caffe, TensorFlow, Keras, sklearn-theano).
3. Deep Learning (DL) libraries used for synthetic data generation (eg. Datawig) that can work with both CPU and GPU.

19.01.2023

20.01.2023

23.01.2023

24.01.2023

25.01.2023

Implementation

Look for ways to handle the possibility of rare/ exceptional stocks.

Work on the Confusion Matrix function and start plotting the attributes. Try to find ways to tackle the issue of data over fitting.

Handle the issues of differences in orientation, backgrounds in sample that cause disparity.

Study the working of SVM (Support Vector Machine) and its use.

Patent / SCI / Scopus Indexed Journal Paper / Scopus Indexed Conference Paper/ Scopus

Indexed Book Chapter

SCI

Work Status

✓

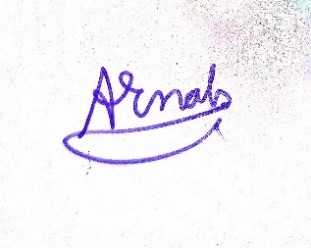
***Excellent*** ***/*** ***Good*** ***/*** ***Satisfactory*** ***/*** ***Needs*** ***improve***

***Attendance*** ***Status***

✓

Regular / Irregular

***CAM*** ***– Max.*** ***5*** ***Marks*** ***per*** ***week***



20/1/23

**Signature** **of** **the** **Student** **with** **date** **Name** **&** **Signature** **of** **the** **Guide** **with** **date**

Final Year Project - UG

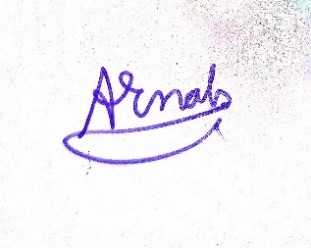
**School of Computing Science and Engineering (SCOPE)**

**B.Tech. CSE/CPS/AL AND ML Capstone Project IN HOUSE Weekly Status Report – Week\_08- 26.01.2023 to 01.02.2023**

**Program: B.Tech. CSE/CPS/AI AND ML** **Batch: 2019-2023** **Course Code: CSE1904**

**Register No.: 19BAI1090 Name of the Student: ARNAB KARMAKAR Mobile No. 9721866757**

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| **Project Title: STOCK MARKET PREDICTION USING MACHINE LEARNING** | | | | | | | |
| Technical Implementation Steps & Programming Tools:   1. Simple Convolutional Neural Network and ANN- construction and generation of synthetic data from user defined input. 2. Python libraries related to Deep Learning (eg. Caffe, TensorFlow, Keras, sklearn-theano). 3. Deep Learning (DL) libraries used for synthetic data generation (eg. Datawig) that can work with both CPU and GPU. | | | | | | | |
| **26.01.2023** | **Start working on the Python implementation and perform normalization of data.** | | | | | | |
| **27.01.2023** | **Learn how to configure container and install all dependencies.** | | | | | | |
| **30.01.2023** | **Load the Test List and the Target List into the Confusion Matrix function.** | | | | | | |
| **31.01.2023** | **Execution of scripts to generate maps.** | | | | | | |
| **01.02.2023** | **Start deploying the CNN and ANN model with SVM.** | | | | | | |
| **Implementation** | Patent / SCI / Scopus Indexed Journal Paper / Scopus Indexed Conference Paper/ Scopus  Indexed Book Chapter SCI | | | | | | |
| **Work Status** | ✓  ***Excellent*** | ***/*** ***Good*** | ***/*** ***Satisfactory*** | | ***/*** ***Needs improve*** |  |  |
|  | | | | |  |  |
| ***Attendance Status*** | ✓  **Regular / Irregular** | | | ***CAM – Max. 5 Marks per week*** | |  |  |



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Final Year Project - UG

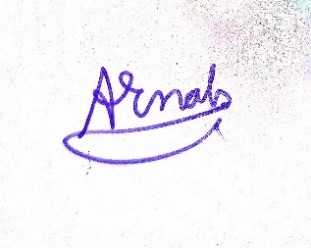
**School of Computing Science and Engineering (SCOPE)**

**B.Tech. CSE/CPS/AL AND ML Capstone Project IN HOUSE Weekly Status Report – Week\_11- 17.02.2023 to 22.02.2023**

**Program: B.Tech. CSE/CPS/AI AND ML Batch: 2019-2023 Course Code: CSE1904**

**Register No.: 19BAI1090 Name of the Student: ARNAB KARMAKAR Mobile No. 9721866757**

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| **Project Title: STOCK MARKET PREDICTION USING MACHINE LEARNING** | | | | |
| Technical Implementation Steps & Programming Tools:   1. Simple Convolutional Neural Network and ANN- construction and generation of synthetic data from user defined input. 2. Python libraries related to Deep Learning (eg. Caffe, TensorFlow, Keras, sklearn-theano). 3. Deep Learning (DL) libraries used for synthetic data generation (eg. Datawig) that can work with both CPU and GPU. | | | | |
| **17.02.2023** | **Refer Publication journals to add more citations from similar research articles.** | | | |
| **18.02.2023** | **Prepare the abstract for the Research Paper to be titled.** | | | |
| **20.02.2023** | **Start preparing the Workflow Diagram for the Literature Survey.** | | | |
| **21.02.2023** | **Study about the working of SVM in such cases.** | | | |
| **22.02.2023** | **Perform synthetic Data Augmentation using ANN for training models.** | | | |
| **Implementation** | Patent / SCI / Scopus Indexed Journal Paper / Scopus Indexed Conference Paper/ Scopus  Indexed Book Chapter | | | |
| **Work Status** | ***Excellent / Good / Satisfactory / Needs improve*** | | | |
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| ***Attendance Status*** | **Regular / Irregular** | ***CAM – Max. 5 Marks per week*** |  |  |



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Final Year Project - UG

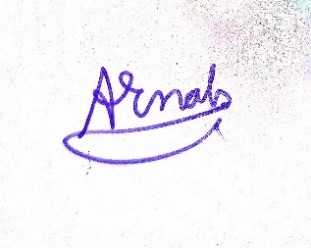
**School of Computing Science and Engineering (SCOPE)**

**B.Tech. CSE/CPS/AL AND ML Capstone Project IN HOUSE Weekly Status Report – Week\_12- 23.02.2023 to 28.02.2023**

**Program: B.Tech. CSE/CPS/AI AND ML Batch: 2019-2023 Course Code: CSE1904**

**Register No.: 19BAI1090 Name of the Student: ARNAB KARMAKAR Mobile No. 9721866757**

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| **Project Title: STOCK MARKET PREDICTION USING MACHINE LEARNING** | | | | |
| Technical Implementation Steps & Programming Tools:   1. Simple Convolutional Neural Network and ANN- construction and generation of synthetic data from user defined input. 2. Python libraries related to Deep Learning (eg. Caffe, TensorFlow, Keras, sklearn-theano). 3. Deep Learning (DL) libraries used for synthetic data generation (eg. Datawig) that can work with both CPU and GPU. | | | | |
| **23.02.2023** | **Look for more articles related to data availability and add them under the corresponding section with precise citations.** | | | |
| **24.21.2023** | **Look for previous surveys/ case studies conducted to add in the research paper for validation with pros and cons.** | | | |
| **25.02.2023** | **Load the Test List and the Target List into the Confusion Matrix function for the SVM and ANN Models.** | | | |
| **27.02.2023** | **Load the Test List and the Target List into the Confusion Matrix function for the SVM, Experimental model.** | | | |
| **28.02.2023** | **Study and understand articles, blogs, and websites related to implementation.** | | | |
| **Implementation** | Patent / SCI / Scopus Indexed Journal Paper / Scopus Indexed Conference Paper/ Scopus  Indexed Book Chapter | | | |
| **Work Status** | ***Excellent / Good / Satisfactory / Needs improve*** | | | |
|  | |  |  |
| ***Attendance Status*** | **Regular / Irregular** | ***CAM – Max. 5 Marks per week*** |  |  |



20/1/23

**Signature of the Student with date Name & Signature of the Guide with date**