TEMPLATE FOR PROJECT PROPOSAL (Max.5pages)

1. Major Area - Big Data

2. Problem statement :

   Using Big Data, we predict the stock in an efficient way by developing Machine Learning algorithm with the collection of historical datasets.

3. Total Cost - 20,000

4. College Code & College Name - 7128 & RVS college of engineering and technology

5. Guide Name - M Mohana Sundharam M.E
   Designation - Assistant Professor/Dept of CSE
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6. Student Team details:

Sl.No.	Student Reg.No.	Name of the Student	Branch	Mobile No.	email id
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7. Project Summary:

   Big Data is a technique which comprises of a huge volume of both the structured and unstructured data which can play a vital role in stock prediction and analysis. We propose to identify stocks with positive everyday return margins in which large amount of datasets are collected using Big Data and it has been trained and tested using Machine Learning algorithms. We build a system which analysis to predict daily gains based on the historical data. Stock markets are dynamic in nature in which it need to be updated and retained to adapt to changing market conditions in the future.

8. Proposed solution with methodology:

We collect stock datasets using Big Data and we perform further operations like training, testing, injecting, pre-processing, predicting, analyzing and data acquisition. We use Machine Learning algorithms and its tool, Spark which is an open-source distributed data processing framework designed for Big Data. It makes easier to combine multiple algorithms into single workflow and it makes faster than other.

9. Work plan/time schedule indicating the project milestone:

Dataset collection	2 weeks
Data acquisition & characterization	1 week
Data injection	1 weeks
Data storage	2 weeks
Data pre-processing	1 week
Training & Testing	2 weeks
Coding	2 weeks
Documentation	1 week
TOTAL	12 weeks

10. Plan of action of implementation:

Plan of action includes Machine Learning algorithm like Data acquisition & characterization, Data injection, Data storage using HDFS, Pre-processing, Training and Testing.

11. List of facilities available in the college to develop the prototype of the project:

Programming Systems

12. Nature of Industry support for the project, (if any): No

13. Details of Financial assistance required: Self-finance

14. Expected outcomes/ results:

Stock market prediction in a positive and speedy nature which makes more helpful for investors to reduce the loss percentage.

UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.
2. The college assumes to undertake the financial and other management responsibilities of the project.
3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

Signature of the Mentor

Signature and seal of the principal

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