



**MINI PROJECT – II**  
**(2018-19)**

**DATA PREDICTION USING PYTHON**

**SYNOPSIS**



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***Mini Project Guide***

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### **About the Project :**

The project we are going to make is about implementing the concepts used in Data Science for modelling of data and making future predictions using various tools provided in the standard libraries of **Python** like **NumPy**, **SciPy**, **Mathplotlib** and **Pandas**. We will be using NumPy for complex calculations, SciPy for mathematical programming, Mathplotlib for data visualisation and Pandas for data manipulation and analysis. At last, we will be using **Tkinter's** library to give a GUI aspect to our project, and shape it in the form of a complete desktop application. .

### **Motivation :**

Predictive modelling of data is of paramount importance in any business endeavour and our software will provide functionality to implement it in an effective manner.

This project doesn't require knowledge of complex technologies and can be made in Python, NumPy, SciPY and Mathplotlib which we can easily learn and use but at the same time it is also challenging in many aspects.

### **Future Prospect :**

We would like to enhance our project in the future making it even more powerful by adding big data analytics so . Right now our software can only process data in tabular form. In the future we would like it to work on all forms of data including unstructured.

**Broad Requirements: -**

Hardware Requirements :

1. 1 GB of RAM (2 GB recommended)
2. 1024 \* 786 screen resolution
3. Intel i3 or higher

Software Requirements :

1. Python 3.6
  2. PyCharm by JetBrains (IDE used)
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