# DATA WAREHOUSE AND MINING

## MINI PROJECT REPORT

# REGRESSION ALGORITHM

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### Problem Definition: -

The system takes in any dataset (for regression model) and evaluated the dataset of Linear Regression model after analyzing the dataset and displays the resulting graphs and other details. And finally gives the accuracy percentage of the model on that particular dataset.

### • Requirements: -

- **Dataset** The dataset must be .csv file and the <u>output variable to be</u> <u>predicted must be at the last column</u> of the dataset table.
- Python libraries pandas, numpy, matplotlib, seaborn, scikit-learn, flask, werkzeug, os, pathlib, joblib and basic libraries.

### ■ Flow Diagram: -

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#### **Dataset**

(provided by user)



## Machine Learning Model

(Regression Algorithm)



### Results on the webpage

(Graphs, Accuracy percentage)

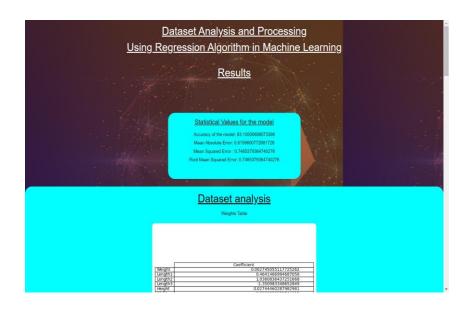


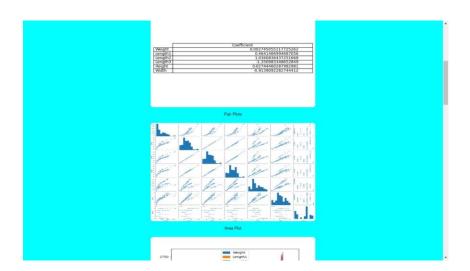
## Machine Learning Model

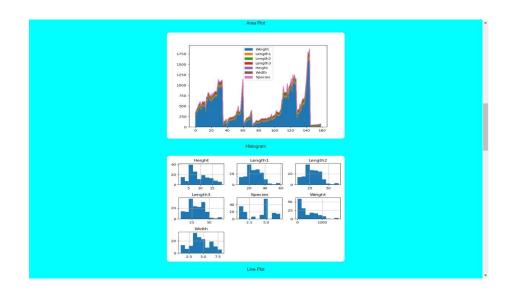
(can be downloaded)

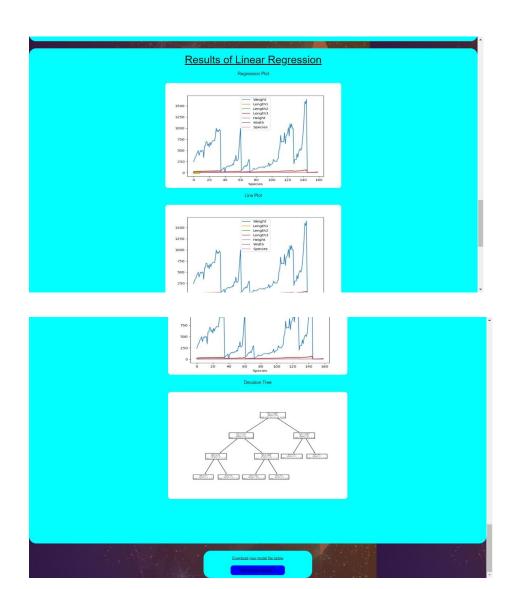
### Screen Shots: -



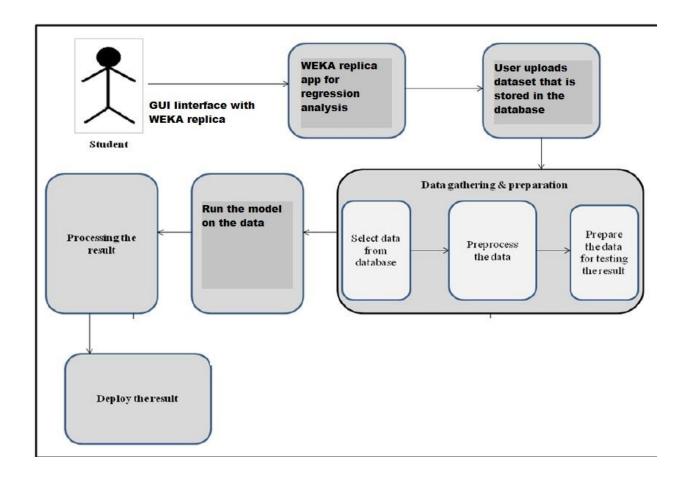








### • Architecture Diagram:



### **■** Code: Included in the zip file

• Conclusion: We have successfully made a linear regression model that takes in any dataset and displays the result in the form of graphs, plots and performance in terms of accuracy and performance of the data. The results displayed are statistical analysis, dataset analysis and results of linear regression which can be saved.

# Thank you!!