

# Programming Project 3

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## Author

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This project is developed using *python-3.9.12*

## Getting Started

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The instructions below will get you to run the code and see the results.

### Prerequisites

*Note:* This project requires *python >=v3.9*.

To install the required packages, run the below command

```
pip install requirements.txt
```

### Requirements

- Task 1 of this project requires the respective data files and labels files(which has both train and test data) in the folder *pp3data*. The datasets used in task 1 are A, B and usps.
- Task 2 of this project requires the respective data files and labels files in the folder *pp3data*. The datasets used for task 2 are A and usps.
- The folder *pp3data* has to be in the main level of the project.

### Project Execution

To execute both the tasks – run the below command

```
python main.py
```

*Note:* - Refer Blr to Bayesian Linear Regression, Ga to Gradient Ascent when you come across these words in the code and results. - The results of the tasks can be seen after executing the respective task files and also plots are stored in the png files if there is any. For detailed explanation of code and the results check the file Report.txt