

**School of Engineering and Applied Science**

**BTech ICT Semester VI**

**CSE523 Machine Learning**

**Project Progress Report**

**Week 4**

* **Team:** Binary Beasts
* **Team members:**

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1. **Tasks performed this week:**

* As per previous week’s results – low accuracy In linear regression and overfitting problem for gradient boosting regression, we have implemented polynomial regression this week.
* For polynomial regression, we have opted *degree = 2* as best fit because other degrees are giving lesser and negative accuracies.

1. **Outcomes of the tasks performed:**

* As the outcome of the polynomial regression implementation for *degree = 2*, we are getting 68% prediction accuracy for the train dataset and 63% prediction accuracy for test dataset.

1. **Tasks to be performed in the upcoming week:**

* In the upcoming week, we will implement the random forest regression model.