|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Decisions**  Predict the exact number of days for the delivery. | **ML Task**  Predicting the exact delivery time based on the features given would enable the ecommerce websites to provide a better customer experience.  Input: Product and customer details  Output: Estimated delivery date | **Value Proposition**   * Solve Supply chain issues * Predict exact Estimated delivery date * Customer experience | **Data Sources**  We came across the project from Kaggle, but data was taken from one of best buy interview assignments. | **Collecting Data**  Reference Data Set:  <https://www.kaggle.com/code/santhoshtsk/ecommerce-shipping-eda-prediction/data> |
| **Features**   * Distance * Size of the box * Shipping days * Weather * Courier   We used the K-Means algorithm to convert the Customer longitude and latitude to the features   * Store Cluster * Customer Cluster |
| **Making Predictions**  API creation, integrated with a Retail company’s website. | **Offline Evaluations**   * R2 Score * Root Mean square Error * Custom loss | **Building Models**   * Ridge Regression * Poisson Regression * Random Forest * Neural Networks |
| **Live Evaluation and Monitoring**  We could test it with mid-scale ecommerce website data.  And confirm if the predictions are accurate or not | | |