# **Capstone 1 – Initial Project Ideas**

1. Book recommendation system

In 2011 when goodreads.com launched its personalized book recommendation engine it was the most useful thing book lovers ever got. This project will aim to create such a recommendation system.

Dataset: <https://www.goodreads.com/api> or <https://www.kaggle.com/jealousleopard/goodreadsbooks>

1. City of Milan’s Telecommunication dataset

Call Detail Record [CDR] describes a specific instance of a telecommunication transaction that passes through a network element. Every time a user performs a telecom activity such as send/receive SMS and calls, a CDR is generated. It contains information about the caller/sender ID, location, time, data used, etc. Analysis and modeling of this time series data helps to identify usage patterns over a period of time and across geographical grids. This helps in decision making of resource allocation by the telecommunication company.

Dataset: <https://doi.org/10.7910/DVN/EGZHFV>

1. Telecom Customer Churn Prediction

This project aims to build a model to predict telecom customer churns. It helps to retain the customers and increase revenue.

Dataset: <https://www.kaggle.com/dileep070/logisticregression-telecomcustomer-churmprediction> or <https://www.kaggle.com/blastchar/telco-customer-churn>