

Google Developer Student Clubs

Chat-Bot using RNNs

Assignment 1

Deadline :14/12/23 11:59 a.m.

1 Introduction

The sinking of the Titanic is one of the most infamous shipwrecks in history.

On April 15, 1912, during her maiden voyage, the widely considered “unsinkable” RMS Titanic sank after colliding with an iceberg. Unfortunately, there weren’t enough lifeboats for everyone onboard, resulting in the death of 1502 out of 2224 passengers and crew.

While there was some element of luck involved in surviving, it seems some groups of people were more likely to survive than others.

In this challenge, we ask you to build a predictive model that answers the question: “what sorts of people were more likely to survive?” using passenger data (ie name, age, gender, socio-economic class, etc).

2 Problem Statement

In this assignment, you will use two similar datasets that include passenger information like name, age, gender, socio-economic class, etc. One dataset is titled train.csv and the other is titled test.csv.

Train.csv will contain the details of a subset of the passengers on board (891 to be exact) and importantly, will reveal whether they survived or not, also known as the “ground truth”

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The test.csv dataset contains similar information but does not disclose the “ground truth” for each passenger. It’s your job to predict these outcomes.

Using the patterns you find in the train.csv data, predict whether the other 418 passengers on board (found in test.csv) survived.

3 Guidelines

1. Algorithm To be used is Logistic Regression along with gradient descent.(Algorithm has to be implemented from scratch and any external library should not be used).
2. You can use your own learning rate, and weight and bias initialization or random initialization.
3. you will need to submit your predictions csv and final notebook .Link for submission will be provided on 14th Dec.