

IDC4022C Module 8 Project: Detecting Fraud Using Machine Learning

The “idc4022cMod8.ipynb” notebook in this repository contains code which demonstrates machine learning concepts for detecting fraud in data provided in the file “idc4022cMod8Data.csv”.

Upload the notebook to Google colab, then upload the CSV file (this file contains 800K lines of data, so it may take a minute or two to upload). Depending on where you store the data file you may need to change the path in the notebook where the CSV file is read (there are two locations).

Execute the notebook and review the output. Write a one-page review of the methods used and results obtained, covering the following topics:

- Briefly introduce the purpose of the notebook, including the primary objective of the analysis
- Describe the models and algorithms used, data preprocessing required, and key characteristics
- Compare and contrast the performance of each model
- Describe specific metrics provided in the notebook
- Evaluate the effectiveness of different approaches
- Highlight any surprising findings or key takeaways from the model comparisons
- Suggest potential improvements or further analyses that could be conducted based on the notebook’s results

Upload the executed notebook and your review to the GitHub classroom repo.