Predict Fraud Detection Using Auto AI

A

Mini-Project Report

Submitted in

Partial Fulfillment Of The Requirements
For The Degree Of

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In

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INTRODUCTION

Automation and artificial intelligence (AI) are transforming businesses and will contribute to economic growth via contributions to productivity. In this mini-project I'll focus on building state of the art systems for churning out predictions which can be used in different scenarios. I'll try to predict fraudulent transactions which we know can reduce monetary loss and risk mitigation. The same approach can be used for predicting customer churn, demand and supply forecast and others. Building predictive models require time, effort and good knowledge of algorithms to create effective systems which can predict the outcome accurately. With that being said, IBM introduced AutoAI which will automate all the tasks involved in building predictive models for different requirements. In this project we will get to see how AutoAI can churn out great models quickly which will save time and effort and aid in faster decision-making process.

PROPOSED METHODOLOGY

The project based on Fraud Prediction using AutoAI for predicting customer churn, demand and supply forecast and others. The project is only for educational purpose.

METHODOLOGY

Tools

- IBM Watson Studio : Analyze data
- IBM Auto AI : Automatically analyzes your data and generates candidte model pipelines
- IBM Cloud Object Storage : Provides unstructured cloud data store

Language

- Python : Programming language Used

Flow

- logs into Watson Studio than create a project
- Initiates an instance of Auto AI & Cloud Storage
- Uploads data files in CSV format
- Initiates model building process using Auto AI
- Creates Pipeline
- Evaulates different pipelines from Auto AI & select best model for deployment
- Generates accurate predictions by making REST call to the deployment.

HARDWARE AND SOFTWARE REQUIREMENTS

Hardware

- Desktop/laptop
- RAM 256MB (Minimum)

Software

- Web browser

REFERENCES

www.google.com/

www.ibmcloud.com/

www.python.com/