OMPRAKASH SELVARAJ

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A seasoned learner, passionate about Data Analytics and Machine Learning engineering, while having solid experience in Analytics. I love to crack real word machine learning and natural language processing problems.

EDUCATION

COIMBATORE INSTITUTE OF TECHNOLOGY — Coimbatore
M.Sc. Decision and Computing Sciences (5 years Integrated) CGPA – 8.97 (till 8th semester) — July 2019 – May 2024

SKILLS & AREAS OF INTEREST

AREAS OF INTEREST

- Statistics & Probability
- Predictive Analytics
- Machine Learning
- Database Management System
- Natural Language Processing
- Data Structures and Algorithms

KEY SKILLS

- Programming languages – Python, C++
- Frameworks – Flask, Django
- Database – Microsoft SQL Server, Hive, Mongo dB
- Libraries – Pandas, NumPy, SciPy, Sklearn, nltk

EXPERIENCE

DATA ANALYST INTERN – EXL HEALTH — July 2022 – Nov 2022

- Build a binary classification model pipeline to find fraudulent health insurance claims using machine learning in python.
- Created Data Mart with hive, performed data quality check functions in Python and Performed Exploratory Data Analysis.

PYTHON FULL STACK DEVELOPER – CHEF@HOME FOODTECH LLP — June 2021 – July 2021

- Build a wireframing for inventory products using balsamiq cloud.
- Worked in supplier dashboard project and contribute more to inventory management algorithm in Python (Flask)

PROJECTS

OVERPAYMENT DETECTION IN HEALTH INSURANCE CLAIMS USING MACHINE LEARNING

- Build a binary classification model pipeline to find whether the insurance claims are fraudulent or not in health insurance data using machine learning in python.
- Build a Machine Learning Pipeline and Worked in Boosting Algorithms like Cat boost, Xgboost and ANN.

AUTOMATED DECISION SUPPORT SYSTEM FOR CYBERBULLYING DETECTION

- Build a multiclass classification model pipeline to find whether the text contain cyberbullying content or not using machine learning and Natural Language Processing techniques. Algorithm: Logistic Regression Accuracy: 84%
- Published the model as package in PYPI Python
- Package Link : https://pypi.org/project/cyberbullying-detection/

TAXI SURGE PRICING DETECTION SYSTEM

- Build a regression model to predict the surge pricing in taxi. Dataset consist of Uber and Lyft data in New York city.
- Model is built as an API using Django and graphical user interface in this web application.
- GitHub Link: https://github.com/omprakashselvaraj/Taxi-Surge-Pricing-Detection-System

CERTIFICATION, ACHIVEMENTS & RESPONSIBILITIES

CERTIFICATION

- Google Data Analytics Professional Certification
- Machine Learning Coursera Certification by Andrew Ng

ACHIVEMENTS

- 2nd Prize in TALEN-DI-SAADE Hackathon – SRM University.
- 2nd Prize in SPYDER IDEATHON - Hindustan University.
- Top 12% percentage in Kaggle competition – (Regression with crab age dataset)