Puttu Sai Vamsi

Data Scientist, TATA Consultancy Services(July,2017-Present)

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Work experience

Data Scientist — Aug,2019 - Present
Tata Consultancy Services

- Claims prioritization using Fraud detection model for Special Investigative Unit team for a large insurer in the US. Initial saving estimates amounted to a 50% reduction in external investigation costs.
  - **Tools used:** XGBoost, RandomForest, EDA, hypothesis testing, Ensemble learning, NLP(word2vec)

- Data process and feature engineering of Underwriting data to perform analytics for better risk evaluation and also enhancing efficiency and decision making throughout underwriting process.

Guidewire PC Developer — July, 2017 - July,2019
Tata Consultancy Services

- Investigated issues and defects to determine problem root cause and formulate corrective action recommendations.

- Worked with business users and operations teams to understand business needs and address production questions.

Skills

Python, CV, NLP, Tensorflow, SQL, Statistics, Data Visualization, Exploratory Data Analysis, XGBoost, Random Forest, SVM

MLOPS, AWS, Basics of GPU Programming, Basics of Virtualization & Cloud Computing

Education

Master of Technology in Artificial Intelligence — Feb,2020 - Present
IIT Jodhpur
CGPA - 7.3

Bachelor of Technology in Mechanical Eng. — 2013 - 2017
SASTRA University
CGPA - 7.76

Career Overview

Over 4 years of experience in analysing and solving P&C business scenarios. And, with over 2 years of experience in research, design and implementation of advanced analytics algorithms to enhance the efficiency of a business process and to solve business problems.

Personal Portfolio

- Road Damage Detection using YOLOv3
  - Employed YOLOv3 model to detect road damage. Dataset is obtained from IEEE bigdata RDD2020

- Exploratory Analysis on COVID19 India data
  - EDA on COVID cases, vaccination and testing done during the Period Dec 2020 - June 2021

- Machine Translation: Malayalam to Telugu
  - Built a Transformer model to translate Malayalam sentences to Telugu. Dataset is obtained from IndicNLP

- Implementation of ML Algorithms from scratch
  - Implemented data pre-processing, Algorithm building, training from scratch

- Dockerizing a simple Django project
  - Dockerized a simple web application built on Django