Aakar Sood

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https://github.com/soodaakar

SKILLS & TOOLS

Python | Numpy | Machine Learning Algorithms: Regression, Classification, Tree-based models, Bagging and Boosting | NLP: Word2Vec, Universal Sentence Encoders, TF-IDF and Countvectorizer | Neural Networks: ANN, CNN, RNN and LSTM | Database: MySQL, Postgresql and SQLite | Regex | Tensorflow

WORK EXPERIENCE

Mavenwave Partners   **Gurgaon, India**
Senior Data Science Specialist   *January 2021 – August 2021*

- Constructed Airflow DAGs to schedule nightly data ingestion into the FHIR store on Google Cloud Platform (GCP). Wrote custom python scripts for every resource to satisfy the DaVinci HL7 interoperability convention
- Moved two million entries into FHIR Store while making CVS Health comply with US Healthcare guidelines and designed seamless data connectivity, revamping efficiency in healthcare

Standard Chartered   **Bangalore, India**
Lead Data Scientist   *July 2020 – January 2021*

- Engineered pipeline where Neural Network model characterized whether an application is fraudulent or not while second (XGBoost) model classified under what category fraudulent application should fall
- Cut down by 40% on overall queue stress and also incorporated transparentness by explaining modelling pipeline through a shapely plot

Capgemini   **Gurgaon, India**
Consultant   *February 2019 – June 2020*

- Authored algorithm to identify merchant location of POS terminals to provide customers with nearby offers from previous transactional data. Classified each customer utilizing k-means clustering to bucket what kind of offers to provide
- Increased revenue on an average by 13% per customer over a 70 Lakh customer base
- Analyzed patterns on three years worth of follow-up call's to defaulted customers by leveraging Universal Sentence Encoder to transform texts data into an analytical dataset and further categorizing customers into deadbeat or not
- Improved upon previous collection model by reducing error rate by 50%. After delivery of POC; discussion opened for two new project's

Xceedance   **Gurgaon, India**
Senior Data Science Analyst   *September 2017 – February 2019*

- Predicted customer satisfaction scores on ongoing Insurance claims taking past six months of data and converting unstructured text data into analytical data set leveraging techniques such as Word2Vec, countvectorizier, TF-IDF
- Extracted customer behavioral polarity deploying sentiment analysis and relativity extraction through variable transformations. Boosted customer retention by 17% for one calendar year
- Extracted payment particulars from thousands of invoices by applying OCR techniques (OCR -Tesseract) for authenticating directly. Devised complex rules for business logic-based validations

<u>EDUCATION</u>
Master of Science: Artificial Intelligence, University at Buffalo, The State University of New York, Expected December 2022

- GPA: 3.67 / 4.0

Bachelor of Technology: Electronics & Telecommunication, Manav Rachna College of Engineering, June 2015

- Percentage: 60%

ACHIEVEMENTS

- Completed 5 weeks Google Machine Learning Immersion ASL.
- Awarded Eagle Squad Award in Mavenwave.
- Kaggle expert and featuring in top 3%.
- First prize in a gaming competition held in MRCE.