SAI VINOD MANIREVU

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SKILLS

Coding Skills	: Python & SQL
IDE Tools	: PyCharm
Database tools	: Amazon Redshift & Google Big Query
DevOps Tools	: Docker
Cloud Tools	: AWS EC2 and S3 & Google Cloud Platform
Machine Learning Skills	: Exploratory Data Analysis, Feature Engineering, Dimensionality Reduction, & SHAP based Model Interpretation
Visualization tools	: Plotly Dash, Seaborn, & Matplotlib
Version Control	: GitHub Enterprise
Data Quality tools	: Great Expectations

EXPERIENCE

Data Scientist   Sept 2020 - Present
ConcertAI, Bangalore

Took over responsibility of handling my team's ML model outputs production & delivery process. This include end-end monitoring & surveillance of both pipeline process and data quality.

Enhanced the process through improvements in both execution process & delivery details documentation for future reference and surveillance. Established standard data quality checking process by replacing manual checks with latest technology like Great Expectations.

Solving business problems by building useful models, tools & services for accelerated model development & validation

Associate Data Scientist   June 2019 - Aug 2020
ConcertAI, Bangalore

Built in-house tool for tool for visualising patient's temporal data with self-service capabilities, which is now playing crucial role in ML model building & validation process. Received appreciations from multiple senior leaders for creating it.

Participated in all phases of predictive model building by understanding the business needs using Real World Cancer data

Data Science Intern   Nov 2018 - May 2019
ConcertAI, Bangalore

Acquired Industry Data Science skills (Feature Engineering, Model Building and Interpretation), by working closely with Data Science team.

Enhanced my skills in Data Visualization, Docker, & AWS (EC2 & S3)

EDUCATION

Master of Technology   Jul 2016 - Jun 2018
National Institute of Technology (NIT), Bhopal, M.P., India   CGPA: 8.30/10
Course subjects : Neural Networks, Digital Signal Processing, & Digital Image Processing

Bachelor of Technology   Aug 2011 - May 2015
IIIT RK Valley, Andhra Pradesh, India   CGPA: 7.67/10
Electronics & Communications Engineering

PUBLICATIONS

Machine learning imputation of metastatic status from open claims in melanoma patients
May 2021
2021 ASCO Annual Meeting

· Built end to end model training & testing pipeline for this model including feature engineering
· Metastatic status is a crucial variable in most oncology studies but is not available in claims data. The objective of this study is to develop a machine learning model for Imputation of metastatic status from claims data with ground. Truth is derived from highly curated electronic medical record data.
· https://meetinglibrary.asco.org/record/197264/abstract

Development of an AI model to dynamically predict metastatic recurrence of early-stage breast cancer patients
May 2020
2020 ASCO Virtual Scientific Program

· Worked on End-End Model building process
· Models that can dynamically predict risk of metastatic breast cancer (MBC) recurrence based on cumulative historical clinical data could help guide patient care & surveillance decisions. The objectives of this study were to predict risk of MBC recurrence dynamically from any point after 1 year of initial diagnosis in a patients journey.
· Link : https://cta-redirect.hubspot.com/cta/redirect/5411893/782ae3a4-bff7-48ae-a26c-f43eb60b9332

Machine learning imputation of Eastern Cooperative Oncology Group performance status (ECOG PS) scores from data in CancerLinQ discovery
May 2020
2020 ASCO Virtual Scientific Program

· Helped team in Exploratory Data Analysis, Visualization & Featuring Engineering in ECOG model building process.
· Link : https://cta-redirect.hubspot.com/cta/redirect/5411893/224c5955-1589-4630-bcb1-ee8ffa226248

Empirical Analysis of Decision Tree Bagging Ensemble Classifiers on Heart disease dataset using Predictive Scores based Feature Selection and SVD
Jul 2017 - May 2018
M.Tech thesis project

· Developed a new Feature Selection algorithm, to rank features by awarding scores as per their relevance to the problem. This helped in improving classifier performance by 10% compared to previous research works. The proposed model classified the Heart disease data with 98.20% classification accuracy.

PROFESSIONAL DEVELOPMENT

Machine Learning A-Z : Hands-On Python in Data Science
Jul - Sep 2018
Udemy

· Learned Machine Learning models implementation in Python using Pandas & Scikit-Learn.

Machine Learning by Andrew Ng
Jun - Aug 2018
Stanford University & Coursera

· Enhanced my skills to prevent Over-fitting & Under-fitting issues through Bias-Variance trade-off using mathematical parameters.
· Studied background mathematical concepts of Supervised & Unsupervised Machine Learning Algorithms.

Python for Machine Learning & Data science boot camp course
Jul - Sep 2018
Udemy

Microsoft DEV274x: Introduction to Python Fundamentals - Score 93%
Microsoft DEV236x: Introduction to Python: Beginner - Score 96%
Jun - July 2018
Edx Learning Platform