



ANUSHRI MORE

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DATA SCIENCE | MACHINE LEARNING | QUALITATIVE ANALYST

MOTIVATION I am passionate about solving business problems using Data Science & Machine Learning. I systematically & creatively use my skillset to add tangible value to the team, the business, and the end-user. I am constantly learning, and always looking to improve.

SKILLS & TOOLS

Programming: Python (NumPy, pandas, seaborn, Keras, PyTorch, Matplotlib, Scikit-Learn), SQL, R, SAS
Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis
Other: Github, Data Visualisation, MS Office, Tableau, AWS, Google Cloud Platform, gurobi solver, CPLEX, Jira, Linux, GPU, Spark, Azure

EXPERIENCE **Graduate Research Assistant - Institute of Molecular Biophysics, FSU**
December 2021 - Present

Image Analysis of HIV-exposed human cells using segmentation and tracking

- Built an automated image analysis platform to combine a multichannel image segmentation model that tracks the motion of HIV through the cell membrane.
- Performed semantic segmentation using UNET(deep learning model) architecture on annotated images generated by OTSU binarization.
- The model is capable of predicting the location of the nucleus in the cell membrane and vice versa, also works efficiently with low quality 3D images.

Associate Data Scientist - Aera Technology
JULY 2019 - JULY 2021

- Built production-ready trade promotion optimisation software that has been successfully deployed and is in use by Fortune 500 organisations.
- Developed Mixed Integer based optimisation model and handled complex constraints and boosted the model performance by 26 % and reduced the run time by 50 % with Mixed Integer Programming based solution with gurobi solver.
- Coordinated in different phases of product delivery (Analysis, Development, Testing (TDD), Version Control, Deployment, Maintenance, Documentation, and Customer Support Troubleshooting) under the Agile software development lifecycle.

PROJECTS **Customer Lifetime Value Prediction [Kaggle Competition-2021]**

- Predicted customer lifetime value by building multiple regression models (Random Forest, XgBoost, CatBoost), Enhanced model prediction using feature selection and hyper-parameter tuning.
- Assessed the financial value of each customer with 81 % training accuracy.
- Secured 4th place on Kaggle's private and public leaderboards.

PROJECTS

Credit Card Fraud Analysis

- Analyzed data to identify and investigate potential fraud cases, including account takeover, money laundering, or other financial crimes.
- Identified fraudulent activity and patterns using Logistic Regression, SVC and tress-based model along with the highly imbalanced data set [transactions made by credit cards in September 2013 by European cardholders].
- Deep Neural Networks and Logistics outperformed other classifiers with AUC = 0.98 at detecting fraud in the test data set.

EDUCATION

MS (Statistical Data Science)

2021 - 2022 - Florida State University, FL-USA

MS (Industrial Mathematics with Computer Application)

2016- 2019 - Pune University, India

BS (Mathematics)

2013 - 2016- Pune University, India

COURSES & CERTS

DATA SCIENCE INFINITY

Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilising GitHub for version control, and collaboration. Using Python for data analysis, manipulation & visualisation. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time.

Machine Learning pipelines to streamline the ML pre-processing & modelling phase.

Deployment of a ML pipeline onto a live website using Flask & Heroku. Turning business problems into Data Science solutions.

The Data Science of Economics, Banking, and Finance, with Barton Poulson (LinkedIn)

Learnt how data science affects the way stocks are bought and sold, how loan applications are processed, and even how fraud is detected now that financial information is exchanged online at such a massive scale. Discovered how social media influences economic trends, and why data scientists need to be especially careful to keep ethics in mind and false assumptions in check when dealing with financial data.