Pragya Jatav

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Education

Indian Institute of Technology, Kanpur

Bachelors of Technology in Materials Science and Engineering, Minor in English Literature 2016 – 2020

Skills

Programming Languages

Python • R• SQL• Java• JavaScript

Technologies and frameworks

MATLAB • MongoDB • Flask • GIT• Tenserflow • Tableau • Hive • Azure Data Factory • Azure Cognitive services • AWS • Advanced Excel • Hadoop • node JS • Linux OS

Libraries

OpenCV•pandas•numpy•sklearn•nltk

Courses

MOOC

Machine learning
Deep learning
Natural language processing
Introduction to data engineering

Undergraduate

Probability and Statistics Introduction to Economics Fundamentals of computing Data Structures Algorithms Linear algebra and Ordinary Differential Equations Partial Differential Equations

Extra-curricula and

Volunteering

Data structures mentor for students at Navgurukul (a non profit working to democratise college education)

Executive, Design for Games and Sports council, IITK

Secretary, Films and Media, IIT Kanpur

Experience

ICICI Lombard GIC

Manager, Business Intelligence | Sep'20 - Nov'21

- Worked in the Business Intelligence team to develop and deploy solutions using data analysis, machine learning and deep learning techniques coupled with Natural Language Processing and Computer Vision.
- Analysed website data from Google Analytics for Lead prioritization
- Evaluated (using CSI and PSI), retrained and monitored the previous classification model, deployed the same using Azure data factory.
- Developed an end to end solution for profiling and risk assessment of intermediaries
- Preprocessed images, developed a transfer learning model for image classification
- Streamlined the process to convert audio file types using python.
- Received accolade from Senior data scientists for analysing multiple speech to text transcription services in a short duration.

Projects

Predicting water level of a Lake | Time Series Forecasting

- Forecasting the water level of a lake, using data from the Acea Smart Water Analytics challenge
- Pre-processed dataset by handling missing values and resampling
- used ADF test to check for stationarity, performed feature engineering and autocorrelation analysis
- generated predictions by using ARIMA model with MSE 2.5

Customer Churn Prediction | Data Analytics

- To identify customers likely to churn balances below a certain amount in coming times
- $\bullet\,$ Pre-processed dataset to reduce imbalance from 90/10 to 60/40 using Near Miss Algorithm
- Analyzed correlation matrix and visualized dataset using boxplot to remove outliers of correlated features
- Developed a Logistic Regression Classifier; f1-score of 0.94 and Area under ROC 0.97 with cross-validation set

Academic Projects

Prepration of Molybdenum disulphide Quantum Dots

Prof. Krishanu Biswas, MSE IITK

- Objective: To prepare MoS2 Quantum Dots by liquid phase exfoliation method
- Prepared nanoparticles of Molybdenum disulphide by cryomilling using liquid nitrogen, Formed quantum dots through ultrasonication
- Verified the formation of nanoparticles and quantum dots through X-ray diffraction, SEM, FeSEM, Raman spectroscopy, UV Visible Spectroscopy and TEM.
- Impact: Successfully prepared Molybdenum disulphide Quantum Dots with size varying from 18 nm to 50 nm.