# 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

Taught Mathematics to 15 underprivileged children at Prayas, student run initiative at IIT Kanpur

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
- 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 | May'19 - Jul'19

- 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.

**Image captioning using tersorflow**

- Developed an encoder(CNN) and decoder(RNN) model with attention to generate captions on images.

**Distribution of minerals ores in India**

- Used India GIS Data to visualize distribution of mineral ores in India.