

JAY Bhatt

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Offering **6+** years of rich Experience in Advanced Analytics, MLOps, Data Science and Machine Learning.

TECHNICAL SKILLS

Technologies:	Python, SQL, R, C++
ML & DL Techniques:	NLP BERT, RNNs , XGboost, LightGBM, Random Forest, Computer vision (MobileNets,CNNs,Object Detection),TimeSeriesForecasting (LSTM,ARIMA,VAR, PROPHET)
Framework:	Tensor Flow, Scikit-Learn, Spacy, NLTK, transfer-learning, plotting using matplotlib, seaborn, Pandas, Numpy
Cloud:	AWS and GCP (gcp certified)
Model Monitoring:	ML-Flow, Custom Flask APIs, Tensor Board, KubeFlow
Version Control & CICD:	Docker, Kubernetes, Terraform, GitLab CI/CD , VertexAI-Feature store

WORK EXPERIENCE

REPS & Co.

Sr Data Scientist, (Dec 2021 - Present) Key projects:

Text Embedding Generator and Feature Store| BERT, MLFlow, Docker, Flask, GCP :

Development of a powerfull embedding generator for text data, extracting semantic meaning from diverse sources to summarize upcoming events efficiently. Text and Numerical data(terabytes size) cleaning and feature development

- Robust CI/CD with live tracking.
- VertexAI-Feature store for centralized storage of all feature.
- Generated features will be further utilized for multiple analytics problems both online and batch purpose.
- Development of open-source ML algorithm that predicts the race and ethnicity of an individual based only on their fullname and location.

[Kubernetes, Terraform, VertexAI Feature store]

Tyson Foods, Bangalore

Data Scientist, (Sep 2019 - Dec 2021) Key projects:

Product Identification System, Feb 2020- Jul 2021

This initiative is focused on removing manual pre-labelling process using state-of-the-artcomputervisional algorithms, reducing error and rework due to mishandling and enrich customer experience.

- Tflight version of **MobileNet V2** model for **Edge inference**
 - Batch model training framework on cloud and injection on edge
 - Advance monitoring of model training framework with **ML-FLOW**
- [Computer vision, Transfer Learning, Edge Deployment, MobileNet, Tflight, ML-Flow]**

Ethics Cases Sentiment analysis and Predictive modelling, Jul 2021 -Present

A combination of Predictive Data Analytics and NLP Micro Trend Analysis will provide ability to proactively mitigate risk with "Just in Time" training and other toolkits in development.

- Resource planning for lawyers was manual and costly process early prediction of spikes could help to achieve cost reduction and timely resolution.
- Complete model development testing and dashboard development with Plotly and Dash then secure Deployment

[ARIMA, RF, Fbprophet, Dash-plotly, NLP]

TATA IQ, Bangalore

Jr Data Scientist, Aug 2018 – Sep 2019

Use predictive analytics and data mining to solve complex problems and drive business decisions as well as Translating business needs into technical requirements and translating data into actionable insight.

Key projects

Network Faults Alarms Prediction Jan 2019- Sep 2019

- Project was developed based on business requirement of fault alarm prediction for Networks.
- Classification Problem was constructed for event of happening the alarms in near most 7 days.
- A Decision tree was first fitted, and baseline accuracies were calculated.
- Random forest and GBM are then used for improvement in baselinemodels

[Python & SQL, RF, ANN]

Coal price forecasting: Sep 2018 to Jan 2019

- Project was developed based on business requirement of commodity price forecasting of coal.
- Coal demand supply data was collected from various 3rd party resources (Sxcoal, Bloomberg)
- VAR, VECM and ARIMAX model been used.
- Granger causality and CCF analysis done for lead lag relation.
- Seasonal trends analysis been done using furrier transform and Mk tests.

[Python & SQL, ARIMAX, VAR]

Cypress Semiconductor

Data Analyst, Jan 2017 – Jun 2018

- Analyzing trends on demand and supply data. Provide data driven decisions for achieving revenue and on
- Time delivery targets.
- Providing monthly and weekly sales forecast based on current run rate and market insights from customers.
- Handling multiple planning matrices and providing key insights for business related decisions.
- Automation on core processes to increase the efficiency of team.

Academic Credentials

M. Tech: Birla Institute of Technology and Science, Pilani(8.66/10)

Mar'2017 Mechanical Engineering (Electives: Adv.Mathematics)

B. Tech: Uttaranchal institute of technology, Dehradun, (8.25/10)

May'2014 Mechanical Engineering