Sourav Bhunia

Data Science Analyst

📍 Bengaluru, Karnataka, 560016
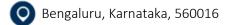
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Statistician/Data Scientist with 2.5 years of work experience and master's in applied Statistics. Seeking to increase data efficiency and data interpretability for Applied Intelligence.

Skills

- Statistics and Statistical Modelling
- Time Series and Forecasting
- Machine Learning
- Regression Analysis
- Deep Learning
- Classification and Clustering
- Text mining and NLP
- Python, Python Dash, R, RShiny, PySpark, SQL

Work History

2018-07 - Current

Data Science Analyst

Accenture Solution Pvt. Ltd., Bengaluru, Karnataka

Order to Completion Prediction Modelling

End to End Order Completion prediction for a major US Telecommunications Conglomerate. Developing an ensemble of ML models (XGBoost, RandomForest) to predict expected time of delivery of the Purchase Orders. Achieved an increase of 15% in model accuracy over pre-existing model in first phase of deployment

Currently working on logical development and prediction of customer facing communications milestones of different orders

Asset Failure Prediction (PAM) for Liner and Gearbox in a Vertical Roller Mill

Led the development of time to failure model for Liner Wear of Grinding Roller using ML algorithms (XGBoost, CatBoost, Lightgbm) and simulation

Proposed recommendations on optimal operational conditions for vertical roller mills to reduce liner wear and extend its lifetime using SMOTE based simulation

Coordinated with global team to develop Anomaly Detection algorithm to identify failure of Gearbox using IoT, Process and Asset Design data

Time Dependent Vehicle Routing Problem

Development Lead in implementation and upgradation of Vehicle Routing Solution

to solve real time routing problem, according to live traffic conditions to ensure minimum travel time for a delivery vehicle

Led the development of the solution as a python Dash go to market web-tool

Commodity Price Prediction

Achieved over 90% accuracy in actual price prediction and developed change in price prediction model of natural gas using a combination of ML models (RandomForest, LSTM), time series and NLP after determining lag effects on prices using granger causality

Healthcare Parts Consumption Simulation and Daily Management of KPIs

Analyzed variation of material consumption performance across markets and worked on simulation of material norms with varying granular parts mix to determine the correct material norms at the granular levels

Reduced manual effort by building automated daily management dashboards using MS Excel to analyze the weekly/monthly performance of different KPIs

Developed Time Series Models for the forecasting of different hierarchical data of usage of healthcare machine parts. Automated the process of developing models and forecasts with algorithm and results deployed on client dashboard

Education

2016-06 - 2018-08

Master of Science: Applied Statistics And Informatics

Indian Institute Of Technology, Bombay - Mumbai, Maharashtra

- Graduated ranking 4th
- Member of Institute Placement Team, 2017-2018
- Elected as Class Representative for Mathematics Department in 2016-2017
- Thesis: Classification and Clustering of Time Series using wavelets

2013-06 - 2016-05

Bachelor of Science: Statistics

RKMRC Narendrapur, Calcutta University - Kolkata, West Bengal

- Graduated ranking 2nd
- Received DST-Inspire Scholarship
- Awarded Kadambini Devi Memorial Prize

Certifications

Applied AI with DeepLearning by IBM

Deep Learning Specialization by deeplearning.ai from Coursera

Natural Language Processing in Tensorflow by deeplearning.ai