

SUSHOVAN MANDAL

Machine Learning Engineer | B. Tech Computer Science & Engineering, IIT Kharagpur

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EXPERIENCE

Engineer, Data Science Team

Alumnus Software Ltd.

04/2018 - Ongoing | Kolkata, India

Spent 2 years solving industry problems for clients, under chief Data Scientist, deriving insights from data through statistical analyses and visualizations, developing models using feature engineering and machine learning techniques (SARIMAX, Multiple Linear Regression, Random Forest, XGBoost, Clustering, etc.) as solutions, optimizing data pipeline, and deploying end-to-end solution into production on Dataiku platform.

- Achieved 70% accuracy in projections for promotion schemes' effectiveness on B2B sales of biscuit brands. Collaborated with project members to analyze and evaluate different candidate Machine Learning models.
- Improved efficiency by 10% in loading and unloading of FMCG stock. Used extensive Feature Engineering and multi-step Ensemble Modelling for solution on Amazon cloud platform.
- Improved manageability reduced runtime by factor of 10, of client's data pipeline for US stocks' Short Interest forecasts, using modular & optimal Python numpy, pandas, sklearn based ML flow.
- Streamlined reusability across projects by building a modular & optimized codebase for sliding-window Time series Forecasting, independent of Machine Learning algorithm used.
- Implemented proof-of-concept stress incident detection Chatbot project consisting Android app, Python Django Server and Google Dialogflow NLP agent.
- Trained a comprehensive Dialogflow bot with custom user intents leveraging application specific data.

Machine Learning Intern, Bing.com team

Microsoft India Development Centre

05/2016 - 07/2016 | Hyderabad, India

- Automated Feature Engineering for existing debugging tool for location query results on Big Data platform.

Intern

SAP Labs India

05/2013 - 07/2013 | Bengaluru, India

- Experimented with testing automation C# tool and Android mobile app testing.

EDUCATION

Bachelor of Technology, Computer Science & Engineering

Indian Institute of Technology Kharagpur

GPA

7.0 / 10.0

INDUSTRY EXPERTISE

Machine Learning



Data Analysis



Software Engineering



SKILLS

Python

Proficient



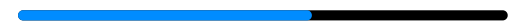
NumPy, Pandas, scikit-learn

Proficient



SQL, MySQL, MongoDB

Advanced



C, C++ 11, Java, Kotlin

Advanced



PySpark, Spark ML

Beginner



TOOLS



Data Visualization

Matplotlib, seaborn



Frameworks

Dataiku Data Science Studio | Django



Version Control, Ecosystem

Git, GitHub | Linux, UNIX & Terminal