

# SUSHOVAN MANDAL

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

+91-9800397328    mandal.sushovan92@gmail.com    linkedin.com/in/sushovanmandal, github.com/enlightner

## EXPERIENCE

### Software Engineer

Fission Labs

10/2019 - Ongoing    Hyderabad, India

Currently creating Microservices based scalable data pipeline deployed to AWS cloud for ML product, using pub-sub messaging.

- Deployed Dockerized data processing system: ingestion, cleaning, transform; for live incoming data using AWS Cloudformation
- Troubleshooted and achieved 99.9% data integrity
- Achieved max throughput of 10000 ETL tasks per 5 minutes

### Engineer, Data Science Team

Alumnus Software Ltd.

10/2017 - 10/2019    Kolkata, India

Solved real-world business problems utilising statistical analyses and visualisations, feature engineering and machine learning techniques like SARIMAX, Multiple Linear Regression, Random Forest, XGBoost, Clustering, et al.

- Improved efficiency by 10% in loading-unloading of FMCG stock, using extensive Feature Engineering and multi-step Ensemble Modelling
- Achieved 70% accuracy in projections of promotions' effectiveness on B2B sales for biscuit brands; collaborated with project members to analyze patterns and evaluate candidate Machine Learning models
- 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 modular & optimized codebase for sliding-window Time series Forecasting, independent of Machine Learning algorithm used
- Implemented proof-of-concept project for stress incident detection Chatbot, consisting Android app, Python Django Server and Google Dialogflow NLP agent, leveraging application specific data

### Machine Learning Intern, Bing.com team

Microsoft IDC

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, Android app testing

## EDUCATION

### Bachelor of Technology (Hons.), Computer Science and Engineering

Indian Institute of Technology Kharagpur

2017

- Won Best Freshers' Award, as part of a 3-member team, for a Differential Drive bot in an Image Processing Robotics event at the annual Tech Fest
- Awarded among the Best Volunteers in National Service Scheme for service as Deputy Group Leader

## INDUSTRY EXPERTISE

Machine Learning

Software Engineering

Data Analysis

## CODING PROFICIENCY

Python    Proficient

NumPy, Pandas, scikit-learn    Proficient

C, C++ 11, Java, Kotlin    Advanced

SQL, MySQL, MongoDB    Advanced

## SKILLS

Cloud  
AWS, AWS Cloudformation

Data Visualization  
Matplotlib, seaborn

Rapid Prototyping  
Jupyter Notebook  
Dataiku Data Science Studio

Framework  
Django Web Framework

Version Control  
Git, GitHub

Ecosystem  
Linux, UNIX & Terminal