

# SUSHOVAN MANDAL

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

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## 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

Spent 2 years using statistical analyses and visualisations, feature engineering and machine learning techniques like SARIMAX, Multiple Linear Regression, Random Forest, XGBoost, Clustering, et al. to solve real-world business problems.

- 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 stress incident detection Chatbot project consisting Android app, Python Django Server and Google Dialogflow NLP agent, 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, Android app testing.

## INDUSTRY EXPERTISE

### Machine Learning



### Software Engineering



### Data Analysis



## CODING EXPERTISE

### Python

Proficient



### NumPy, Pandas, scikit-learn

Proficient



### C, C++ 11, Java, Kotlin

Advanced



### SQL, MySQL, MongoDB

Advanced



## SKILLS



### Cloud

AWS, AWS Cloudformation



### Tools

Jupyter Notebook  
Dataiku Data Science Studio  
Django Python Web Framework  
Visualisation: Matplotlib, seaborn



### Version Control, Ecosystem

Git, GitHub | Linux, UNIX & Terminal