# **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.**

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**

**1** 05/2016 - 07/2016 P Hyderabad, India

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

#### Intern

### **SAP Labs India**

**1** 05/2013 - 07/2013 P 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

Advanced

# **SKILLS**



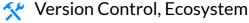
Cloud

SQL, MySQL, MongoDB

AWS, AWS Cloudformation



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



Git, GitHub | Linux, UNIX & Terminal