

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

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 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

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