

# SUSHOVAN MANDAL

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

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## EXPERIENCE

### Staff Scientist

Jukshio

10/2020 - Ongoing   Hyderabad, India

Currently co-leading a team, ensuring high accuracy in mission critical scenarios for Computer Vision APIs based on Deep Learning models.

- Built processes & automation to regularly monitor deployed AI systems
- Built & expanded a new team from scratch
- Customized AI solutions to better serve specific production scenarios

### Software Engineer

Fission Labs

10/2019 - 10/2020   Hyderabad, India

Created Microservices based scalable data pipeline deployed to AWS cloud for client's ML-based product, using Infrastructure as Code.

- Deployed Dockerized data processing system: ingestion, cleaning, transform; for live incoming data using AWS Cloudformation
- Troubleshoot 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 business problems using statistical analyses & 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 and Android mobile app testing.

## EDUCATION

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

Indian Institute of Technology Kharagpur

2017

- 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



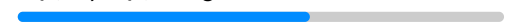
C, C++

Advanced



SQL, MySQL, MongoDB

Advanced



## SKILLS



Cloud

AWS, AWS Cloudformation



Data Visualization

Matplotlib, seaborn



Tools

Jupyter Notebook, Dataiku Data Science Studio, Pycharm IDE



Framework

Django web framework



Version Control

Git, GitHub



Ecosystem

Linux, UNIX & Terminal