

# 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.

- Created processes & automation to regularly monitor deployed AI systems
- Customized AI solution to achieve 50% better fraud prevention
- Built & expanded a new team from 2 to 12

### 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 for live incoming data using AWS Cloudformation
- Troubleshoot and achieved 99.9% data integrity
- Attained 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
- Collaborated with project members to achieve 70% accuracy in projections of promotions' effectiveness on B2B sales for biscuit brands
- Achieved better manageability & reduced runtime by factor of 10, of client's data pipeline for US stocks' Short Interest forecasts
- 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 test automation C# tool and Android mobile app testing

## EDUCATION

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

Indian Institute of Technology Kharagpur

📅 2017

- Won Best Freshers' Award in Image Processing event at Tech Fest for Differential Drive bot built by team
- 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