SUSHOVAN MANDAL

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

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EXPERIENCE

Staff Scientist

Jukshio   09/2020 - Ongoing   Hyderabad, India

Currently leading a team, ensuring high accuracy in mission critical scenarios for Computer Vision APIs powered by Deep Learning models.

- Accomplished 6% improvement in reliability by building new automated processes to monitor deployed system & providing targeted feedback to production team
- Customized AI solution to scenario to achieve 50% better fraud prevention
- Built & expanded a new team from 2 to 12

Software Engineer

Fission Labs   10/2019 - 09/2020   Hyderabad, India

Deployed Microservices data pipeline to AWS cloud for ML application, using Infrastructure as Code.

- Engineered high scalability Microservices Dockerized data processing system for live incoming data using AWS Cloudformation deployment
- Established 99.9% data integrity for the data pipeline by troubleshooting through traffic simulation
- 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
- Attained 70% accuracy in projections of promotions' effectiveness on B2B sales for biscuit brands in collaboration with project members
- Reduced application runtime by factor of 10 & attained better manageability of 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

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++, Java   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