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

- Deployed ETL stack for ML product consisting network, compute, message queuing service, etc. using AWS Cloudformation.
- Built microservices for Data Cleaning & Transformation, in Python.

Engineer, Data Science Team
Alumnus Software Ltd.

📅 10/2017 - 10/2019   📍 Kolkata, India

Spent 2 years solving industry problems for clients, working with chief Data Scientist, deriving insights from data through statistical analyses and visualizations, developing models using feature engineering and machine learning techniques (SARIMAX, Multiple Linear Regression, Random Forest, XGBoost, Clustering, etc.) as solutions, optimizing data pipeline, and deploying full solution into production on Dataiku platform.

- 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

📅 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.

INDUSTRY EXPERTISE

Machine Learning

Software Engineering

Data Analysis

SKILLS

Python — Proficient

NumPy, Pandas, scikit-learn — Proficient

C, C++ 11, Java, Kotlin — Advanced

SQL, MySQL, MongoDB — Advanced

TOOLS

☁️ Cloud
AWS, AWS Cloudformation

⚙️ Frameworks
Jupyter, Dataiku DSS | Django

🥧 Data Visualization
Matplotlib, seaborn

🛠️ Version Control, Ecosystem
Git, GitHub | Linux, UNIX & Terminal