SUSHOVAN MANDAL

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

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EXPERIENCE

Engineer, Data Science Team

Alumnus Software Ltd.

📅 04/2018 - Ongoing   📍 Kolkata, India

Spent 2 years solving industry problems for clients, under 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 end-to-end solution into production on Dataiku platform.

- Achieved 70% accuracy in projections for promotion schemes' effectiveness on B2B sales of biscuit brands. Collaborated with project members to analyze and evaluate different candidate Machine Learning models.
- Improved efficiency by 10% in loading and unloading of FMCG stock. Used extensive Feature Engineering and multi-step Ensemble Modelling for solution on Amazon cloud platform.
- Improved manageability of client's data pipeline for US stocks' Short Interest forecasts, using modular Python sklearn based ML flow.
- Reduced runtime of existing data pipeline by an order of magnitude. Leveraged optimal numpy & pandas Python code and multiprocessing.
- Streamlined reusability across projects by building a 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.
- Trained a comprehensive Dialogflow bot with custom user intents 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.
- Built Machine Learning module on Big Data platform to determine most important locations for an application, from past search logs.

Intern

SAP Labs India

📅 05/2013 - 07/2013   📍 Bengaluru, India

- Experimented with testing automation C# tool and Android mobile app testing.

INDUSTRY EXPERTISE

Machine Learning

Data Analysis

Software Engineering

SKILLS

Python — Proficient

NumPy, Pandas, scikit-learn — Proficient

SQL, MySQL, MongoDB — Advanced

C, C++ 11, Java, Kotlin — Advanced

PySpark, Spark ML — Beginner

TOOLS

⚙️ Data Visualization
Matplotlib, seaborn

⚙️ Frameworks
Dataiku Data Science Studio | Django

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