

Sushovan Mandal, Data Scientist, IITian

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Passionate and responsible Data Scientist. 1.5-year experience solving industry problems using Machine Learning, Data visualization & creative thinking; about 2 years overall experience. Achievements include 10x improvement in runtime of codebase at Alumnus, leveraging optimal numpy, pandas code & multiprocessing. Achieved 10% efficiency gain in stock loading across all products.

Experience

Alumnus Software Ltd., Kolkata – Engineer, Data Science Team

APR 2018 – PRESENT | 1 year 5 months

- ❖ Achieved 70% accuracy in projections for promotion schemes' effectiveness on B2B sales of different biscuit brands for a FMCG client company.
- ❖ Reduced inefficiencies by 10% in loading and unloading of FMCG stock. Used extensive Feature Engineering and multi-step Ensemble Modelling for solution; and AWS as platform.
- ❖ Improved predictions for Short Interest of US stocks. Collaborated with project members to analyze and evaluate different candidate Machine Learning models.
- ❖ Reduced runtime of codebase, from pre-process to model & predict on large dataset, 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 ML algorithm used.
- ❖ Utilized ML techniques like SARIMAX, Multi-Linear Regression, Random Forest, XGBoost, Clustering, etc.
- ❖ Deployed end-to-end solution into production, from Data Load, Feature Engineering to Modelling & Evaluation, on Dataiku DSS platform.

Alumnus Software Ltd., Kolkata – Trainee Engineer

OCT 2017 – APR 2018 | 6 months

- ❖ Implemented proof-of-concept Chatbot project in a small team, consisting of Android app, Python Django Server and Google Dialogflow NLP agent.
 - Developed algorithm for stress incident detection using multiple inputs.
 - Trained a comprehensive Dialogflow bot with custom user intents leveraging case-specific data.

Microsoft India Development Centre, Hyderabad – Machine Learning Intern, Bing.com team

MAY 2016 – JULY 2016 | 3 months

- ❖ 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.

National Digital Library, IIT Kharagpur - Project Student, B. Tech Project

JULY 2015 – NOVEMBER 2016 | 1 year 4 months

- ❖ Engineered web portal for searching and accessing previous years' Question papers. Utilized Django Frameworks and MariaDB database backend and REST API.
- ❖ Automated metadata creation for indexing digital library using Python Information Retrieval program utilizing Open-source libraries like lxml, ebooklib.

SAP Labs India, Bangalore - Intern

MAY 2013 - JULY 2013 | 3 months

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

Skills and Expertise

Python, C, C++ 11, Kotlin, Java, SQL; Linux environment & terminal; Advanced version control: git, Github.

Python libraries: NumPy, pandas, scikit-learn, Django; Python visualization: Matplotlib, seaborn, Plotly.

Development Environments: Jupyter, PyCharm, Android Studio; Advanced code editors: Atom, Sublime.

Education

Bachelor of Technology - Computer Science & Engineering, IIT Kharagpur

Class of 2017, CGPA: **7.0**

AISSCE 2010, CBSE 10+2 - DAV Model School, Durgapur

All India Senior School Certificate Examination, Science with Computer Science: **89%**

AISSCE 2008, CBSE 10 – DAV Public School, Midnapore

All India Senior School Examination: **88.4%**

Extra-Curricular Activities

- ❖ Won Best Freshers' Award in a 3-member team for building a Differential Drive bot; in an Image Processing event Robocop, utilizing OpenCV libraries, at Kshitij'11, IIT Kharagpur.
- ❖ Contributed as Junior Developer in a student-body research group Autonomous Ground Vehicle at IIT KGP, building autonomous rover prototypes which won a few awards at IGVC '12 & '13, Michigan, USA.
- ❖ Awarded one of the Best Volunteers in NSS as Deputy Group Leader.
- ❖ Hobbies include sketching, road trips, mountain trekking.