Sushovan Mandal, Data Scientist, IITian

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Passionate Data Scientist and ideator. More than one year experience solving industry problems using Machine Learning, Data analysis & innovative visualizations. Expert in efficient Python Data Science coding using pandas, NumPy, scikit-learn. Advanced user of Git versioning system, able to comfortably handle large, complex codebase. Fluent in English, Hindi, Bengali.

# Experience

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

## APR 2018 – PRESENT | **1 year 4 months**

* Achieved *70%* accuracy in projections for how different promotion schemes affect B2B sales of different biscuit brands and sub-brands to retailers and wholesalers in a couple of markets.
* Reduced inefficiency by *10%* in FMCG stock loading using extensive feature engineering and multi-layer ensemble modelling, utilizing PySpark on Azure Databricks and AWS as platforms.
* Improved upon existing methods, predictions for Short Interest of US stocks on given data after analyzing and evaluating many machine learning models as a team.
* Reduced runtime of codebase for data pre-processing and machine learning modelling over full dataset, by order of magnitude using optimized Python for Data Science code and parallelism.
* Streamlined reusability across projects by building a modular, optimized code flow framework for sliding window timeseries modelling, independent of machine learning technique utilized.
* Utilized ML techniques like SARIMAX, Multi-Linear Regression, Random Forest, XGBoost, Clustering, etc.

### Alumnus Software Ltd., Kolkata – Trainee Engineer

## OCT 2017 – APR 2018 | **6 months**

* Implemented prototype Chatbot project for a professional scenario 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.

### 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. Used 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.