

Sarthak Langde

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Education

University of Mumbai

July 2013 – Aug 2017

- Bachelor of Engineering in Computer Engineering – 8.6/10 CGPA

Experience

Smallcase

Bangalore, IN

Web Engineer

Aug 2017 – Present

- Developing progressive web applications for thematic stock investment and portfolio management
- Creating open-source boilerplate templates for **React** and **Vue** for easy scaling

Council of Scientific & Industrial Research – Fourth Paradigm Institute

Bangalore, IN

Research Intern under the guidance of Dr. K C Gouda (Senior Scientist)

June 2016 – Aug 2016

- Processed and analyzed the data for BSE Sensex stock market index using **Excel** and **Python (NumPy)**
- Developed and compared different neural network models built using **Python (Pandas)** and **MATLAB (nntool)**
- Predicted the year ahead values for the index with 89% correlation using feed-forward back-propagation model
- Summarized the impact of global political mega events on Indian stock markets

Algo Engines

Mumbai, IN

Software Engineering Intern

Jan 2015 – July 2015

- Automated the climate data retrieval process from government agency servers using **PowerShell**
- Facilitated direct import of this data into their machine learning model using GUI tool built using **.NET**
- Formulated a strategy to implement Google's Material Design guidelines into their website and applications
- Spearheaded their digital marketing campaign by redesigning their website, implementing SEO, newsletter campaigns and testing lead generation strategies

Projects

Application of Machine Learning for Climate Modeling (Final Year Project)

- Extracted climate data from CRU high-resolution gridded datasets using **Python** and **netCDF**
- Studied and performed different time-series analysis to understand the rainfall pattern in the region
- Developed a NARX (nonlinear autoregressive network with exogenous inputs) model for long-term precipitation and drought prediction using **MATLAB (nntool)** and **netCDF** libraries

SHG Buyer Seller Interaction System (Smart India Hackathon 2017)

- Engineered a unique marketplace and training and support center for self-help groups (SHG) of rural India to support bulk ordering automatically without the intervention of third party using Node.js and React.js

Online Transcript Application System

- Deployed an online system in PHP for students to request for transcripts with features like online document verification, digital signing, application status tracking

E-Attendance System

- Developed and deployed a system for managing attendance of students, providing visualizations, managing courses, automatic data backup, etc. all of which reduced the time and effort taken by almost 80%
- Suggested optimized timetable of classes based on analyzing the student attendance pattern

Achievements

- Fourth prize at the Smart India Hackathon conducted by Government of India with 4000 participants, April 2017
- Selected for Dr. APJ Abdul Kalam Summer Training from among 5000 students all over India, April 2016
- Certificate of Excellence by Ramrao Adik Institute of Technology for contributing to college projects, July 2016

Responsibilities

Computer Society of India, Ramrao Adik Institute of Technology

Mumbai, IN

Chief Technical Officer

July 2016 – May 2017

- Trained over 200 students at through hands-on workshops on Python, Data Science and Web Technologies
- Started hackathons with Machine Learning and Blockchain as the theme
- Founded a community to make students of other departments aware of the latest advancements in Computer Science and get started with programming

Software Packages

- Programming - Python, Java, C, C++, C#, JavaScript, PowerShell, HTML5, CSS3, PHP
- Data Science – MATLAB, netCDF, MS Excel, NumPy, SciPy, Pandas, R
- Databases – SQL, Oracle SQL, MySQL, MariaDB, MongoDB