AVEEK SAHA

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SKILLS

- Languages - C, Python, Java
- Backend - PHP, Node JS
- Databases - MongoDb, SQL
- Frameworks - Angular, Vue, Electron and Ionic.
- Big Data - Hadoop, Spark
- Machine learning and NLP - Keras, Tensorflow, NLTK, Gensim, Spark MLlib

EXPERIENCE

ALTIMETRIK, BANGALORE — *Summer Intern*

May 2019 - July 2019

Used NLP and deep learning to identify test cases that have similar semantic context to pre existing test cases to avoid duplicates.

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR — *Summer Intern*

June 2018 - June 2018

Worked on an array of sensors to identify suspicious activity near parked vehicles and a mobile application to allow users to monitor the surroundings of the vehicle.

ELECTROSOFT CONSULTANTS, KHARAGPUR — *Summer Intern*

July 2018 - July 2018

Developed a software interface in Python, including GUI, based on a Raspberry Pi for a 3D Rock Surface Profiler.

EDUCATION

PES University, Bangalore — *B.Tech,* **Computer Science Engineering**

2016 - 2020**,** CGPA: 7.9 (Upto 6th semester)

Delhi Public School East, Bangalore — *CBSE,* **Science**

2014 - 2016**,** Percentage: 91.4%

Bethany High School, Bangalore — *ICSE,* **Science**

2007 - 2014**,** Percentage: 90.8%

PROJECTS

TWITTER FAKE NEWS NETWORK - An exploration of Twitter's Verified users and how likely is it that an article shared by the user is fake. Used **Graph Convolutional Networks** to train a model to learn graph embeddings and classify users based on their network neighbours and previous tweets.
 Link - https://github.com/Aveek-Saha/TwitterFakeNet

CRICKET MATCH PREDICTOR - Use Apache Spark to predict the outcome of a cricket match ball by ball. A probability model, and a decision tree model was trained using **Apache Spark's MLLib** module in **Pyspark**.
 Link - https://github.com/Aveek-Saha/Cricket-score-predictor

YOUTUBE TRENDING VIDEO PREDICTOR - Given a video this model predicts whether the video will feature on YouTubes trending page or not. Trained a Stacking classifier with KNN, Random Forest and Naïve Bayes with Logistic Regression as the meta-classifier using **scikit-learn**.

CONTAINER ORCHESTRATOR - A container orchestration system that implements load balancing, auto scaling and fault tolerance, that can be used with any containerised application. Made with **Node.js** and **Docker**
 Link - https://github.com/Aveek-Saha/Orca-strator

SENTIMENT BASED STOCK PRICE PREDICTION - Trained various models in **scikit-learn** and **Keras** to classify daily tweets and news articles about Apple as positive or negative. Each day was given a sentiment score based on the overall sentiment. Using this stock price + sentiment score data a LSTM was trained to predict future stock prices.
 Link - https://github.com/Aveek-Saha/Sentiment-based-stock-price-forecasting

LIVE CHESS - Used **Socket.io** with **NodeJS** to make a website where people can join chess game rooms and play with others around the world. The moves are reflected in real time.
 Link - https://github.com/Aveek-Saha/Online-Chess

FUSE FILESYSTEM - A basic file system in user space written in **C using FUSE**. Supports operations like create, open, read and write files. Creating, renaming and deleting folders is also supported.
 Link - https://github.com/Aveek-Saha/FUSE-Filesystem

DUSK PLAYER - A music player for desktop, which has over *eight thousand* downloads, built with **Electron and AngularJS**.
 Link - https://github.com/Aveek-Saha/MusicPlayer

OTHER INTERESTS

I am passionate about contributing to free open source software as a way of giving back to the community, and I'm very active on **GitHub,** where I collaborate with people around the world to create helpful utilities and tools**.** I also write tutorials and guides on programming on my **Blog.** Apart from this, I like to draw and you can check out some of my artwork on **Behance.**