

# 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

### HEWLETT PACKARD ENTERPRISE, BANGALORE -

#### ***System/Software Engineer I***

August 2020 -

- Systems and software engineer on the Enterprise Solutions and Performance team.

#### ***Research And Development Intern***

Jan 2020 - August 2020

- Worked in the Enterprise Solutions and Performance team.
- Worked on Automation of Life-cycle Management for HPE Solutions using VMWare ESXi.
- Also worked on an Integrated Management Console to automatically show issues with hardware or software in a solution.

### ALTIMETRIK, BANGALORE - *Summer Intern*

May 2019 - July 2019

- Used NLP and deep learning to identify test cases that have similar semantic context to avoid duplicates, within a given set of test cases.
- This reduced development time for applications with a large number of test cases as fewer redundant test cases are written and tested.

### INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - *Summer Intern*

June 2018 - July 2018

- Worked on the Hybrid Electric Vehicle project.
- Created a system to identify suspicious activity near parked vehicles.

- Data is received from an array of sensors, filtered and transmitted over a wireless network.
- Developed an Android application where the user receives a notification when activity is detected.

## EDUCATION

### **PES University, Bangalore – B.Tech, Computer Science and Engineering**

2016 - 2020, CGPA: 8.06

*Specialization: Data Science*

### **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 Neural Networks** 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 YouTube's 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 *ten thousand* downloads, built with **Electron and Angular**.

Link - <https://github.com/Aveek-Saha/MusicPlayer>

## CERTIFICATIONS

**TensorFlow Developer Certificate** - *from TensorFlow, August 2020 - August 2023*

A certificate for clearing the TensorFlow developer certificate exam that tests proficiency in using TensorFlow to solve deep learning and ML problems.

[TensorFlow certificate Link](#)

**Advanced Machine Learning with TensorFlow on Google Cloud Platform Specialization** - *by Google Cloud on Coursera, September 2020*

Courses covered-

- Image Understanding with TensorFlow on GCP
- Recommendation Systems with TensorFlow on GCP
- End-to-End Machine Learning with TensorFlow on GCP
- Sequence Models for Time Series and Natural Language Processing
- Production Machine Learning Systems

[Coursera certificate Link](#)

**TensorFlow Developer Specialization** - *by deeplearning.ai on Coursera, July 2020*

Courses covered-

- Intro to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Convolutional Neural Networks in TensorFlow
- Natural Language Processing in TensorFlow
- Sequences, Time Series and Prediction

[Coursera certificate Link](#)

## 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](#).