

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 on Automation for Life-cycle Management and developed an Integrated management console for HPE Solutions as a part of the Enterprise Solutions and Performance team.

ALTIMETRIK, BANGALORE - Summer Intern

May 2019 - July 2019

Used NLP and deep learning to remove duplicate test cases from a collection of test cases based on their semantic similarity.

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - Summer Intern

June 2018 - July 2018

Worked on an array of sensors for a hybrid electric vehicle to identify suspicious activity near parked vehicles along with a mobile application to monitor the surroundings of the vehicle.

EDUCATION

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

2016 - 2020, CGPA: 8.06

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 *nine thousand* downloads, built with **Electron** and **Angular**.

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

CERTIFICATIONS

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

Link - [TensorFlow certificate Link](#)

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

Link - [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](#).