

Sumukh Vasisht Shankar

Boston, MA 02120 • (857) 206-5194 • sumukhmys1999@gmail.com

<https://www.linkedin.com/in/sumukh-vasisht-s/> • <https://github.com/sumukh-vasisht>

EDUCATION

Northeastern University, Khourey College of Computer Sciences

Boston, MA

Candidate for Master of Science in Data Science – GPA: 4.00

(Expected) May 2023

Related Courses: Data Management and Processing, Algorithms.

Visvesvaraya Technological University, The National Institute of Engineering

Karnataka, India

Bachelor of Engineering in Information Science – GPA: 9.05/10.00

Aug 2017 – Aug 2021

Related Courses: Database Management Systems, Artificial Intelligence, Data Analytics, Big Data, Recommender Systems, Machine Learning, Information Retrieval Systems.

TECHNICAL KNOWLEDGE

Programming / Languages: Python, R, C++, Java, C, SQL

Tools/Frameworks: Hadoop, Spark, PySpark, TensorFlow, PyTorch, Sci-kit, plotly, seaborn, Tableau, matplotlib

Databases: MySQL, SQLite, MongoDB, Firebase, PostgreSQL

PROFESSIONAL EXPERIENCE

1. Lazer Lab, Network Science Institute, Northeastern University, Boston, MA

November 2021 – Present

Data Engineer (Part-Time)

- Implementing scalable data pipelines to identify and characterize social behavior from social media data (mainly Twitter).
- Optimized existing pipeline to clean and tidy twitter data of over 40 million records and reduced the time by over **40%**.
- Developed a script to identify **50k** unique voter records out of 1.8M records at the state level.

2. FICO, Bangalore, India

Jan 2021- June 2021

SWE Intern

- Worked in the Metadata Services team on the FICO Data Management Platform. Developed Regular Expression Validation for various information fields and implemented other functionalities by writing over **10+ APIs**.
- Wrote jUnit test cases for increasing code coverage of the project by more than **11%**.

3. Antriksh Labs Pvt. Ltd., Mysore, India

Feb 2020 – Dec 2020

AI Research Intern

- Worked on an AutoML SaaS Product. Performed methodological research for the best plots for different kinds of data.
- Designed and developed **2 automated pipelines** for ETL, Data Visualization, Exploratory Data Analysis, and Statistical Analysis. Wrote **over 45 APIs** to carry out Data Visualization and statistical analysis of datasets.
- Developed a dashboard using Plotly, GGPlot and D3.js.

4. Deshik Labs, Mysore, India

Mar 2019 – Oct 2019

Software Intern

- Developed the entire front-end of a website and admin application for a tattoo parlor.
- Contributed to the development of a PWA for a foundry including admin and client applications according to the requirements of the client.

ACADEMIC PROJECTS

1. Facial Recognition Based Smart Attendance System, NIE, Mysore, India

Feb 2021 – Jul 2021

- Developed a facial recognition system using Deep Learning with a modified Local Binary Patterns Histogram algorithm. Achieved high accuracy (**>95%**) while recognizing faces. Also developed applications for teachers that maintained the students' attendance in a central database.
- The software reduced the time taken by teachers for manual attendance taking by more than **50%** in the trial runs.

2. Identification of Social Issues of India through Analysis of Twitter Data, NIE, Mysore, India

Sep 2020 – Jan 2021

- Developed an NLP, ML and Data Analytics project to analyze the social issues of India using tweets procured in real time. The software reduced the time taken by teachers for manual attendance taking by more than **50%** in the trial runs.
- Developed complaint detection and classification algorithms which performed with a high accuracy of **89%** and **87%** respectively. Developed a dashboard to visualize the EDA of the data.

3. Automated Dust Storm Detector, NASA Space Apps Challenge - 2020

October 2021

- Used Image Processing and ML techniques to detect dust storms using satellite image data and developed a mechanism to alert people in that region about it by using reverse geo encoding techniques.
- Our team **received the global nomination** for the Space Apps Challenge that year.