

AAYUSH HALGEKAR

Github: [aayush1204](#) | LinkedIn: [aayushhalgekar1204](#) | aayush.halgekar@gmail.com | +91 7710983100

EDUCATION

Dwarkadas J. Sanghvi College of Engineering, University of Mumbai, India **Expected: June 2022**
Candidate for B.E. Computer Engineering with *Distinction* **(CGPA: 9.32/10)**
Advance Technology Course Specialization in **Data Analytics**, certified by IBM **(CGPA: 9.92/10)**

Thakur Vidya Mandir High School and Junior College, Kandivali, Mumbai, India **June 2018**
Secured *Distinction* in Higher Secondary Certificate (HSC) Examination **(89%)**

PROFESSIONAL EXPERIENCE

Indian Institute of Technology (IIT), Delhi **Nov 2021 - Present**
Research Intern *Prof. Brejesh Lall & Prof. Amit Singhal*

- **Working** on an application of NLP in the Indian Judiciary System to help lawyers
- **Implemented** summarization models for long legal documents and currently working on automatic redaction of sensitive and confidential data from legal documents

Indian Institute of Technology (IIT), Bombay **Aug 2021 - Nov 2021**
FOSSEE Intern *Prof. Nagesh Karmali*

- **Worked** on the project eSim on Cloud which is a system that allows users to draw analog and digital circuits and simulate them
- **Improved** the LTI module of the system and fixed minor bugs

J P Morgan Chase & Co. **Jun 2021 – Aug 2021**
Software Engineering Program Intern

- **Assisted** the Channels team in Investment Banking Division and developed a conversational chatbot using Rasa
- **Developed** the conversational chatbot compatible to both SQL and NoSQL databases and provided an intuitive way for retrieval of cases from internal case management application

PROJECTS

Rubber Price Modelling *Guide: Kriti Srivastava*
Python, Sklearn

- **Led a team of 5** to compile a case study on the state of the rubber industry in India for a Big 4 Consulting Firm
- **Investigated** hundreds of factors that affect its trade and production-consumption cycles
- **Performed** extensive feature engineering and dataset analysis to construct and shortlist statistical and machine learning based models achieving accuracy of over 90%

N - Body Simulation *Guide: Bhooshan Paradkar*
Python, Matplotlib

- **Simulated** the motion of N bodies under the influence of mutual gravitational attraction
- **Currently working on** applying Barnes Hut algorithm

PUBLICATIONS

Sentiment Analysis of Twitch messages

- **Co-authored** and published a research paper at the 2021 Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT) and accepted for publication in IEEE Xplore, DOI: [10.1109/ICECCT52121.2021.9616932](https://doi.org/10.1109/ICECCT52121.2021.9616932)

Legal Document Clustering *Guide: Kiran Bhowmick*

- **Developed** a novel context-aware approach for clustering of legal documents on the basis of the topic of the document
- **Created** a pipeline of sentence-embeddings using DistilBERT, UMAP and Mini-batch K-Means
- **Co-authored** a research paper which is accepted at the Sixth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS - 2021) and accepted for publication in Springer

Internet of Behavior

- **Wrote a survey paper** on IoB, illustrating the impact of behavioral analysis on businesses
- **Illustrated** one such approach taken by a big-tech firm to develop business strategies based on consumer behavior
- **Presented** the paper at the 2021 - 5th International Conference on Information Systems and Computer Networks and accepted for publication in IEEE Xplore

TECHNICAL SKILLS

Languages: Java, C/C++, Python, Javascript **Misc:** Git, OOP fundamentals, Numpy, Pandas, Charts.js, SQL, Cassandra
Frameworks: Rasa, Django, Django Rest Framework, React, Bootstrap, Flask

EXTRA CURRICULAR ACTIVITIES

- **Won 1st prize** at *Merge 2021* (Best Technology Project) and at *HackMerced VI* (Moonshot) **2021**
- **Winner of 1st prize** at *MergexIndia* (Best Fusion Project) **2021**
- **Selected amongst Top 3** at *JPMC's Code for Good 2020* out of **75 teams** **2020**
- **Bagged 2nd position** in State level Swimming Competition and participated in AISM National level Swimming Competition
- Served as a member of the Alumni committee, organized and hosted 5+ events (like Alumni Seminar Week). **2020**