

# Tanmay Chavan

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## EDUCATION

### Georgia Institute of Technology

MS in Computer Science

- Graduate Teaching Assistant for CS 6601: Intro to Artificial Intelligence
- CGPA: 4.0/4.0

August 2024 - Present

Atlanta, GA

### Pune Institute of Computer Technology

Bachelor of Engineering in Computer Engineering

- CGPA: 9.16/10.0

August 2019 - May 2023

Pune, India

## TECH SKILLS

Programming Languages: Python, Java, C/C++, Dart, shell

Frameworks: Tensorflow, PyTorch, Hadoop, Spark, SQL, NLTK, Numpy, Pandas, Scikit, Jenkins, Kafka, Spring Boot, Redis, Qt, Flutter, OpenGL

Interests: Machine Learning, AI, Web development, App development, Distributed Systems, NLP, DevOps, Computer Networking

## WORK EXPERIENCE

### Software Engineer | Avaya

Pune, India | July 2023 – June 2024

Web Development, Cloud Computing, DevOps

- Developed several **backend** components of on-premise and **cloud services** services using **Spring Boot**, **Azure cloud**, **Kafka**, and **Redis**. Exposed web services using **REST APIs** and **WebSocket**.
- Reduced **Jenkins** build pipeline runtime from **3 hours** to **40 minutes** by implementing parallelized builds, optimizing scripts and caching partial builds.
- Built transformer-based models to gauge the fatigue of call center agents. Integrated the model with the call routing algorithms to reduce the load of employees with higher fatigue.
- Implemented advanced telemetry functions for Avaya AES using Spring Boot **Actuators** to enable a pay-as-you-go billing system.

### Project Intern | L3Cube

Pune, India | June 2022 – July 2023

Machine Learning, Natural Language Processing

- Investigated the effects of **domain-specific pre-training** in language models.
- Created transformer-based models pre-trained on **40 million tweets** in Marathi and Hindi each, with **SOTA** performance in hate speech detection.
- Built L3Cube-MeCorpus, a collection of large Marathi-English **code-mixed** corpus, labeled datasets for downstream tasks, and SOTA language models.
- **Mentored** a group of students analyzing hate speech patterns in Marathi posts on social media platforms.

### Research Assistant | Pune Institute of Computer Technology

Pune, India | June 2021 – June 2023

Machine Learning, Distributed Systems

- Analyzed the robustness of sentence encoders against **adversarial perturbations** in the Computational Linguistics Lab.
- Worked on building **scalable** recommendation systems in distributed settings on big data at the CAILMD Lab.
- Used Apache **Mahout** and **Hadoop** to build several clustering, classification, and regression machine learning models.

### Student Developer Intern | Google Summer of Code

Remote | May 2021 – August 2021

Computer Graphics

- Contributed to Krita. Implemented a new algorithm for **clipping** vector shapes which accounts for **Bezier curves** in addition to line segments.
- Improved vector shape operation algorithms such as union and intersection of shapes while incorporating the improved Bezier-clipping algorithm.
- Worked in a **Linux** environment on a **C++** codebase with the **Qt** framework. Used building tools such as **CMake** and automated testing tools.
- **Project details:** <https://summerofcode.withgoogle.com/projects/#4650352734896128>

## PROJECTS

### PayTTMM - A Bill Splitting App (Skills: Flutter, Firebase, Dart, App development)

- Created an app to help split bills amongst a group of people using **Flutter** and **Firebase** (link: <https://github.com/Tanmay-Chavan/payTTMM>)

### Scalable Twitter hate speech detection bot (Skills: Spark, Hadoop, Mahout, Python, Distributed Computing, ML, NLP)

- Developed a **scalable** bot to detect hate speech in real time on Twitter using Apache **Hadoop**, **Mahout** and **Spark**, and the Twitter API.

### Snake Xenzia (Skills: C/C++, OpenGL, Computer Graphics)

- Created a computer game inspired by the classic Snake Xenzia game found on Nokia 3310 using **OpenGL** and **C++**.

## PUBLICATIONS

1. [My Boli: Code-mixed Marathi-English Corpora, Pretrained Language Models and Evaluation Benchmarks](#)  
*Tanmay Chavan, Omkar Gokhale, Aditya Kane, Shantanu Patankar, Raviraj Joshi, IJCNLP-AACL 2023*
2. [Spread Love Not Hate: Undermining the Importance of Hateful Pre-training for Hate Speech Detection](#)  
*Omkar Gokhale, Aditya Kane, Shantanu Patankar, Tanmay Chavan, Raviraj Joshi, ICBINB Workshop at NeurIPS 2022*
3. [A Twitter BERT Approach for Offensive Language Detection in Marathi](#)  
*Tanmay Chavan, Shantanu Patankar, Aditya Kane, Omkar Gokhale, Raviraj Joshi, HASOC Workshop at FIRE 2022*
4. [Large Language Models for Multi-label Propaganda Detection](#)  
*Tanmay Chavan, Aditya Kane, Arabic Natural Language Processing Workshop at EMNLP 2022*