

JAY PATEL

Ph.D. Candidate (Computational Social Science & NLP) → [Google Scholar](#) | <https://mrjaypatel.com>
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Professional Summary - iDRAMA Lab

- 3 papers accepted – [ACL '24](#), [ICWSM '24](#) | 3 papers in submission – [ACL '25](#), [ICWSM '25](#)
- Using LLM, detect ***hate-speech & misinformation*** from social media platforms, e.g., Twitter, Reddit, 4chan.
- Understanding ***multimedia (memes/videos)*** to characterize sentiments in online Web communities.
- **5+ years of academic research experience** – ***Large-scale internet data measurements, LLM***, Social Networks, Statistical methods, (2019-2021: Computational Game Theory and Evolutionary Computing).
- **3+ years of industrial work experience** – iOS Software Engineer, Full Stack Engineer, UI/UX Designer.
- [USAToday\(Media Coverage\)](#) - Computer vision model to detect [Kekistani flag](#) from 1M 4chan images. [\[Link\]](#)

Conference Publications

- Large Language Models for Content Moderation – **Submitted to ACL ARR '25**
 - ◆ An explainable framework to detect antisemitism using LLM (Llama 3.1 8B, 70B)
- [Aya dataset: An ... instruction tuning](#) (CohereForAI: Open-source contrib.) – **Accepted to ACL '24**
 - ◆ Lead contributor to process and release **[513 million]**+ data points [Huggingface-Aya](#)
- [Podcast Outcasts](#): Understanding Rumble's Podcast Dynamics – **Submitted to ICWSM '25**
 - ◆ Analyzed **[13K hours]**+ of videos from Youtube & Rumble to understand the political stance using the CLIP model (CLIP + Clustering on video frames).
- [iDRAMA-Scored-2024](#): A Dataset of the Scored Social Media Platform – **Accepted to ICWSM '24**
 - ◆ Collected, analyzed & released **[56 million]**+ data points [Huggingface-Scored](#)
- [iDRAMA-rumble-2024](#): A Dataset of Podcasts from Rumble – **Accepted to ICWSM '24**
 - ◆ Rumble's multimedia data analysis & released **[650K]**+ data points [Huggingface-Rumble](#)
- [From HODL to MOON](#): Understanding ... Cryptocurrency Ecosystem
 - ◆ Trained emotion detection RoBERTa model & classified **[150 million]**+ Reddit posts

Education

Ph.D. candidate, Computer Science, StateUni of NY@Binghamton, NY **GPA: 3.80** Aug 2021 - Present
- Advisor: [Dr. Jeremy Blackburn](#)

MS-Research, Computer Science & SE, Auburn University, AL **GPA: 3.57** May 2021

MS, Computer Science, Northwestern Polytechnic University, CA **GPA: 3.76** Dec 2016

BE, Computer Engineering, Gujarat Technological University – India **GPA: 3.00** May 2014

Industry Experience

Software Engineer Intern, iOS – [IMVU, Redwood City, CA](#) July 2017 - Dec 2017

Software Engineer Intern – [Attala Systems Corp., San Jose, CA](#) March 2017 - July 2017

iOS Software Engineer Intern – **(1) RiteTag, (2) Filmakr Labs LLC** May 2016 - Oct 2016

iOS Application Developer – [Cimcon Software PVT LTD, India](#) April 2014 - Aug 2015

Technical Skills

Languages: (Proficient) - Python, Swift, Objective-C, Java) | **Intermediate** - Ruby, C/C++, JS, Typescript

ML: Clustering(HDBSCAN, UMAP), Topic Modeling (BERTopic), Community-detection (Graphs), Prompt Eng.(CoT)

AI/ML Frameworks (Python): Pytorch, Tensorflow, Huggingface, LangChain, vLLM, Numpy, Pandas, Matplotlib, NetworkX, Scikit-Learn, Statsmodels, Spacy, cuML, Django, Flask, RESTful APIs, Multiprocessing, Celery

Models: Transformers (RoBERTa), LLM (LLaMa 3), CLIP, Vision models (e.g., SAM). [Model finetuning/training]

Cloud & Databases: AWS, GCP, Docker, MongoDB, Postgresql, Vector-DB (qdrant), RAG. [Git, LaTeX]