JAY PATEL

Ph.D. Candidate (Computational Social Science & NLP) → Google Scholar

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Professional Summary - iDRAMA Lab

- 3 papers accepted – ACL '24, ICWSM '24 | 2 papers in submission – ICWSM '25
- Using LLM, detect **hate-speech & misinformation** from social media platforms, e.g., Twitter, Reddit, 4chan.
- Understanding *multimedia (memes/videos)* & characterizing sentiments in online Web communities.
- **USAToday (Media Coverage)** - Computer vision model to detect *Kekistani flag* from 1M images. read here
- **5+ years of academic research experience** – Large-scale internet data measurements, LLM, Social Networks, Statistical methods, *Computational Game Theory and Evolutionary Computing.*
- 3+ years of industrial work experience – iOS Software Engineer, Full Stack Engineer, UI/UX Designer.

Conference Publications [57 Citations]

➜ **Aya dataset: An open-access collection for multilingual instruction tuning – Accepted to ACL '24**
  ◆ Lead contributor to process and release [513 million]+ data points **Huggingface-Aya**
➜ **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 – **Submitted to ICWSM '25**
  ◆ Trained emotion detection RoBERTa model & classified [150 million]+ Reddit posts
➜ **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.)

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 – **RiteTag**   May 2016 - Oct 2016
iOS Software Engineer Intern – **Filmakr Labs LLC**   July 2016 - Sep 2016
iOS Application Developer – **Cimcon Software PVT LTD, India**   April 2014 - Aug 2015

Tech. Skills

Languages: Proficient in - Python, Swift, Objective-C, Java | **Intermediate** - Ruby, C/C++, JS, Dart, Typescript, C#, Php, Scheme, Prolog, Ada, HTML5, CSS/SCSS, R programming, SAS Software
ML: Clustering (HDBSCAN, UMAP), Topic Modeling (BERTopic), Community-detection (Graphs), Prompt Eng.
AI/ML Frameworks (Python): Tensorflow, Pytorch, Huggingface, vLLM, Numpy, Pandas, Matplotlib, NetworkX, Scikit-Learn, Statsmodels, Spacy, cuML, Django, Flask, RESTful APIs, Multiprocessing
Models: Transformers (RoBERTa), LLM (LLaMa 3), CLIP, Vision models (e.g., SAM)
Cloud & Databases: AWS, GCP, Heroku, Docker, MongoDB, Postgresql, Vector-DB (qdrant), RAG. [Git, LaTeX]