

ROHAN KAMATH

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<https://github.com/rohanrkamath>

EDUCATION

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| PES University
Bachelor of Technology in Computer Science and Engineering
GPA (7.13) | <i>2017 – 2021</i> |
| Deeksha Center For Learning (PU)
High School
Score in Percentage (84.99%) | <i>2015 – 2017</i> |
| Shri Kumaran's Children's Home (CBSE)
Secondary School
GPA (8.6) | <i>2015</i> |

EXPERIENCE

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| Asquared IoT Pvt. Ltd
<i>Full Stack Developer Intern</i> | January 2021 – Present
<i>Pune, India</i> |
| <ul style="list-style-type: none">· Created a web app using Flask around a video analysis code, that implements Anomaly Detection.· Implemented Redis to run heavy time-consuming tasks in the background, thus letting the user queue multiple projects in the background.· Worked on creating a file structure for users and projects, spawning directories every time a user/project is created.· Used the sqlalchemy ORM to connect to a SQLite3 database to store user credentials, project details, job IDs, etc· Worked on cross-cutting concerns like authorisation, security and multi-tenancy.· Explored the usage of Deep Learning models in the field of manufacturing and security. | |
| Center for Information Security, Forensics and Cyber Resilience
<i>Penetration Tester</i> | June 2020 – July 2020
<i>Bangalore, India</i> |
| <ul style="list-style-type: none">· Researched on DOM-based attacks, specifically on AJAX Request Header Manipulation.· Were given clearance to try finding the vulnerability on our college website, and wrote a penetration test report. | |
| Incognito Forensic Foundation
<i>Cybersecurity and Forensics Intern</i> | June 2019 – August 2019
<i>Bangalore, India</i> |
| <ul style="list-style-type: none">· Gained hands-on experience with cyber forensic tools/software like UFED and Goldwave and cybersecurity tools like nmap, Maltego, Harvester, Metasploit, Beef and Burpsuite.· Involved in case-solving with the assistance from senior forensic experts. | |

TECHNICAL STRENGTHS

Languages	Python, HTML/CSS, JavaScript, SQL, LaTeX
Developer Tools	VS Code, VIM, Linux
Frameworks	Flask, Node.js, Express.js, React.js
Machine Learning	Numpy, Pandas, PyTorch
Website	HTML5/CSS, bootstrap, Jinja Template Engine
Database	SQLite3, MongoDB, Redis
Cyber Security	Nmap, Metasploit, Harvester, Burpsuite, Maltego
Other Tools	AWS, GitHub, Heroku

PROJECT

Propaganda Detection on Twitter

October 2020

- An ongoing research project under Dr Bhaskarjyoti Das.
- By implementing the technique of Domain Adaptation, from a labelled new articles dataset from SemEval 2020 Task 11, to a manually scraped dataset from Twitter on the hashtag CAA and NRC (Scraped using Tweepy), we attempted to detect textual fragments of propaganda using our PBLM model.
- We increased the accuracy by incorporating emotions as a dimension into our model.
- We have submitted our findings to a Springer conference.
- We are currently working on detecting Propagandists on Twitter using Social Network Analysis techniques, using user attributes like retweet count and average retweet delta and plotting a retweet graph.

Galaxy Discord Bot

January 2020

- Created a fully functional general purpose Discord bot called Galaxy. Served more than 350,000+ members in 1000+ servers. The bot was officially verified by Discord on July 26th, 2020.
- Used Node.js as the runtime environment, MongoDB as the database and AWS to host the bot.
- Check out the official bot website www.galaxybot.xyz for more information.

Riding Sharing App

January 2020

- The aim of this project was to build a few REST APIs for the RideShare Cabs app and to provide cloud architecture in implementing them.
- Using Flask, RabbitMQ (Pika) as a message broker, Zookeeper (Kazoo) for scalability and worker handling, SQLite3 for a DB, and Docker, it was hosted on AWS.

PUBLICATIONS

Labelled Sentence Level Corpus on Propaganda Detection

April 2021

Zenodo.org

Zenodo

- Published a manually labelled dataset for propaganda detection on Indian Social Media on the topic of CAA/NRC as a part of our ongoing research. We have submitted our paper on Enhanced PBLM to a Springer conference.

EXTRA-CURRICULARS

Badminton

- Part of the school badminton sports team.
- Have been a professional badminton player for 10 years, having multiple mentions and pictures on newspapers.
- National Level Player, have represented the state of Karnataka on numerous occasions.

- Have won of multiple state level tournaments, in both the singles and doubles category.

iCube 2015

- Was an organiser of the annual college fest, iCube 2015
- Played an integral part in the food and hospitality department.

AWARDS

- Sports Person of the year in Badminton (2014-2015). (Shri Kumaran's Children's Home)
- Achieved "Distinction" in UNSW Global Australia Educational Assessment in the field of Science (2014)
- Attain "The Bronze Standard" in The International Award for Young People.
- Inter-school badminton champions of 2013 and 2014 of Karnataka.

VOLUNTARY EXPERIENCES

Youth for Seva

April 2018

- Involved in serving food to the homeless and cleaning the streets on Bangalore.

Center for Innovation & Entrepreneurship (CIE)

August 2019 – May 2020

- Built a prototype and a business model for a food delivery system called Foodle.
- This included taking interacting and surveying non-residential students and hostelites to get insights and inputs.
- Foodle delivers home-cooked, balanced meals with nutrition standards - thereby reducing unhealthy eating habits in students who can't avail this food by connecting them to near by home-cooks.

Rotary International

June 2020

- Proud receiver of the Rotary KaroNA Warrior certificate.
- During the unfortunate Covid-19 pandemic, was involved in delivering rations and medical kits to patients.

HOBBIES

- **Playing the Bass Guitar** - I like to cover my favourite rock/metal bands like Megadeth, The Pixies, The Strokes, etc in my free-time.
- **Video Games** - I enjoy competitive gaming and have participated in CSGO tournaments.
- **Reading** - I indulge myself with philosophical books of Nietzsche, Dostoevsky, etc.
- **Baking** - I enjoy baking at least once in two weeks, serves well as a stress-buster.