

## EDUCATION

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### Cummins College of Engineering for Women

*B.Tech. in Electronics and Telecommunication*

Pune, India

*Aug 2016 – Jul 2022*

## WORK EXPERIENCE

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### Hunters.ai

*Machine Learning Engineer*

Fully remote

*September. 2021 - Present*

- Researched and built analytical tools of evaluating threat hunting detectors understanding anomalous patterns in the detection outputs
- Setting up the monitoring and quality check infrastructure in SageMaker ML detectors

### Trustworthy Information Systems Lab at ÉTS Montréal

*Affiliated Researcher*

Fully remote

*June. 2022 - Present*

- Researching model extraction attacks on Machine Learning systems with explanations APIs
- Modelling an adversary can leverage the information provided by counterfactual explanations to build high-fidelity and high-accuracy model extraction attacks.

### Verloop.io

*Machine Learning Engineer*

Bangalore, India

*July. 2020 - September. 2021*

- Contributed to the intent recognition service using sentence-transformer to improve the Top-k recall and accuracy. Improved F1 by 40% absolute.
- Designed, Built, and deployed a multi-lingual Name Recognition service (Github) used across all clients
- Refactored our model routing and serving app, written in Django to improve deployment time from weeks to hours, added reliable tests and CI/CD

### Verloop.io

*Machine Learning Intern*

Bangalore, India

*July. 2020 - September. 2021*

- Created a Person-Name extractor customized for multilingual conversations. Tweaked Flair (Facebook's Natural Language Processing library) to work on chatbot specific use cases in English, Spanish and French
- Evaluated performance of various language models like ULMFiT, VAMPIRE for low-resource language contexts

## PUBLICATIONS

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- HinglishNLP: Fine-tuned Language Models for Hinglish Sentiment Detection International Workshop on Semantic Evaluation 2020 Barcelona, Spain December 2020
- Long-range and Self-powered IoT Devices for Agriculture and Aquaponics Based on Multi-hop Topology IEEE World Forum on Internet of Things (WF-IoT 2019) Limerick, Ireland, April 2019
- Design, Development and Deployment of Low-Cost Short-Range Self-Powered Wireless IoT Devices IEEE International Symposium on Smart Electronic Systems (iSES) Hyderabad, India, 2018

## SELECTED TALKS

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- **PyData Meetup Bangalore 2019:** Extracting Names from multi-lingual conversation

## PROGRAMMING SKILLS

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**Deep Learning & NLP:** Proficient in PyTorch, Keras, fastAI, spaCy, NLTK, SQL, Kubernetes

**Software:** Past Experience in Horizontally Scaled Deployments with Kubernetes, Web Apps for ML Demos with Flask, Steamlit, Async Demos with FastAPI

## AREAS OF INTEREST

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Cybersecurity, Low Resource Languages, Natural Language Understanding, Transfer Learning for NLP