# ADITYA SRIVASTAVA

**Links :** LinkedIn, GitHub

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## WORK EXPERIENCE AND RESEARCH

**SentiSum**  *October 2021 - Present*
*Member of Technical Staff - NLP and Machine Learning*
Working on text classification, textual anomaly detection and unsupervised information extraction.

**Language Technologies Research Center (LTRC) - IIIT Hyderabad**  *August 2017 - May 2022*
*MS by Research and Research Assistant*
Worked with Dr. Dipti Misra Sharma (Head, LTRC) on sentiment extraction and identification of political bias in news, and on generation and sentiment analysis of code mixed language.

**Rakshak Project - AI for Medicine**  *August 2020 - February 2021*
*Research Assistant*
Built a platform that facilitates ML and data science on medical datasets under Prof. Ramesh Loganathan and Prof. Vikram Pudi, in collaboration with Intel Labs India.

**Institute for High Performance Computing and Networking (ICAR CNR, Italy)**  *May 2019 - March 2020*
*Research Intern*
Worked with Dr. Giuseppe Manco (Senior Researcher, National Council for Research, Italy) and team, on the application of deep neural networks in recommendation systems.

**International Institute of Information Technology, Hyderabad**  *August 2019 - December 2019*
*Teaching Assistant - CL1.101 Introduction to Linguistics*
Responsibilities included conducting tutorial classes, and setting/grading assignments and test papers.

## PUBLICATIONS AND PROJECTS UNDERTAKEN

**Publication: Pending submission still in anonymity period, awaiting review.**

**Publication: Transformers for Learning Dictionaries and their Representations**  *July in 2022*
- Accepted at the CODWOE shared task in the SemEval Workshop 2022, NAACL,
- Achieved **first place** on the leaderboard for the definition modeling subtask and competitive scores on the embedding generation subtask.
- We used transformer models for both subtasks, experimenting with techniques like unsupervised pretraining, multitask learning and contrastive learning.

**Publication: HCMS for Sentiment Classification in Code-Mixed Language**  *December 2020*
- Accepted at the SemEval Workshop 2020, ACL.
- Devised a multi-level neural architecture, employing CNNs and self-attention to perform sentiment analysis in a low-resource, code-mixed language setting.

**Project: HF-Trim, a Vocabulary Trimmer for Pretrained HuggingFace Models**  *July 2022*
- Removes unused vocabulary from large pretrained language models and their tokenizers to conserve memory.

**Project: Collaborative Mem. Nets. for Recommendation (Pytorch)**  *June 2019*
- Created a Pytorch port for the architecture detailed in the aforementioned paper.

## ACHIEVEMENTS

**The Dean's List of Meritorious Students - IIIT Hyderabad**  *August 2016*
Made the Dean's list of students with exemplary academic performance in the academic year 2015-2016.

**Winner of IIIT-Hyderabad & ECell Megathon**  *September 2018*
Finished at 1st position in the security domain at Megathon, a national, university-level hackathon.

## EDUCATION

**International Institute of Information Technology, Hyderabad**  *August 2015 - May 2022*
*B.Tech. (Honors) in Computer Science and M.S. by Research in Computational Linguistics*  CGPA 8.25

## TECHNICAL SKILLS

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|---|---|
| **Programming Languages** | Python, C/C++, BASH, SQL |
| **Libraries and Packages** | Keras, Tensorflow, PyTorch, Stanford Core NLP Tools, spaCy, Pandas, MySQL |
| **Miscellaneous** | GNU-Linux, Windows, Git, LaTeX, Arduino |