

# CHIRANTHAN SRIDHAR

347-755-9337 | [chiranthan.sridhar@colorado.edu](mailto:chiranthan.sridhar@colorado.edu) | [LinkedIn](#) | [Website](#)

## EDUCATION

### Master of Science in Computer Science

University of Colorado Boulder, Boulder, CO

May 2024

### Bachelor of Engineering in Information Science and Engineering

RV College of Engineering, Bangalore, KA

July 2019

## RESEARCH EXPERIENCE

### Student Researcher, [NALA lab](#), University of Colorado Boulder | Boulder, CO

Jan 2023 - Present

My research is in the field of NLP and current focus is on understanding and improving the factuality of the generated text in existing LMs. I was advised by [Prof. Katharina Kann](#).

## INDUSTRY EXPERIENCE

### Software Engineer Intern, MathWorks | Natick, MA

May 2023 - Aug 2023

- I worked on enhancing the existing machine translation system to effectively handle custom and new tags when translating tagged documents.

### Software Engineer II, Cisco | Bangalore, KA

Apr 2021 - Jul 2022

- I spearheaded the Security team to renovate our analytics dashboard, resulting in a significant improvement in usage by approximately 30%. Additionally, I was involved in the proposal of a framework to centralize security vulnerabilities and ticketing system and prioritizing tasks effectively.
- I explored and proposed a secure method for accessing and managing customers' public cloud resources (GCP, AWS) by leveraging Workload Identity federation and Okta. This approach significantly enhanced security compared to the conventional method of using Service Account impersonation.
- I lead the development of a release orchestrator that automated scheduled and on-demand. This implementation resulted in a substantial reduction in deployment time, from 2 hours down to less than 10 minutes.

### Software Engineer I, Cisco | Bangalore, KA

Jul 2019 - Mar 2021

- Explored ways to improve management of event-based architectures and proposed using Argo and Airflow. Enhanced many projects' architecture to use Argo and found it easier to manage events.
- Built a command-line tool for CI/CD pipeline management for multiple private and public runtimes with Go. The CLI tool reduced process time by nearly 50% and it offered a way to automate.
- Collaborated with the infra team to devise a health monitoring dashboard for all tools offered in the team. Additionally, leveraged auto case assignment script to help in troubleshooting issues related to our tools by creating tickets and assigning to people based on availability and skill; downtime during issue fixes was brought down to 15 minutes or less.

### Software Engineer Intern, Cisco | Bangalore, KA

Jan 2019 - Jun 2019

- Designed Groovy library to run custom multibranch pipeline jobs in Jenkins; reduced time taken to run Jenkins job and allowed easier customisations compared to freestyle and maven jobs.
- Devised a Groovy plugin to Quay integration with Urban Code Deploy; provided ability to automatically pull image tags from Quay.

## ACADEMIC PROJECTS

### Sentiment analysis on low-resource African languages | University of Colorado Boulder | [Github](#) | [Youtube](#) Nov 2022 – Dec 2022

Our focus was to investigate the ability of language models (LMs) to effectively handle new low-resource languages without experiencing "catastrophic forgetting." Additionally, we aimed to comprehend the similarity between various languages spoken in the African region, while assessing the performance of the model when exposed to a mixture of these languages (either a subset or all of them).

### Can we TLDR the text? Legal text Rhetorical role prediction | University of Colorado Boulder | [Github](#) Nov 2022 – Dec 2022

We conducted an assessment of different tokenizer lengths to predict the Rhetorical role in lengthy legal texts. We examined and contrasted different shortformer and longformer models to accomplish this objective.

## TECHNICAL SKILLS

---

- **Programming Languages:** Golang, Python, R, Java, Groovy
- **Deep Learning Frameworks:** Pytorch, Pytorch Lightning, Keras
- **Machine Learning libraries:** Spacy, Numpy, Scikit-learn, Matplotlib, Seaborn, Pandas, Optuna, W&B
- **Web Development:** Hugo, Jekyll, CSS, HTML
- **Cloud Tech:** Docker, Kubernetes, AWS, GCP

## TEACHING EXPERIENCE

---

**Graduate Teaching Assistant, University of Colorado Boulder | Remote** *June 2023 – Present*

Taught the Starting Computing course consisting of 30 students. I was responsible for creating recitation materials, teaching, creating and grading assignments and exams.

**Course Manager, University of Colorado Boulder | Boulder, CO** *Jan 2023 – May 2023*

Managing the Natural Language Processing course having over 80 students with tasks such as conducting office-hours, creating and evaluating assignments and exams and, handling queries by students.

## LEADERSHIP EXPERIENCE

---

**GPSG College Senator, University of Colorado Boulder | Boulder, CO** *Mar 2023 - Present*

Representing Computer Science department in the Graduate and Professional Student Government (GPSG) raising and addressing concerns of graduate program across campus

**[CSGSA](#) Web Guru, University of Colorado Boulder | Boulder, CO** *Feb 2023 - Present*

Maintaining the website of Computer Science Graduate Student Association (CSGSA) that's based on Jekyll and Github Pages