

LAKSHAY ARORA

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EDUCATION

Carnegie Mellon University – School of Computer Science
Master of Computational Data Science

Pittsburgh, PA
December 2024

Vellore Institute of Technology

Bachelor of Technology in Computer Science Engineering | GPA: 9.54/10.00

Vellore, India
June 2020

PROFESSIONAL EXPERIENCE

Cisco

Senior Software Engineer

Bangalore, India
January 2020 – August 2023

- Developed, managed, and optimized Cisco's large scale data pipeline for **real-time event processing** leveraging Kafka and Flink technologies, ensuring seamless storage in Elasticsearch and facilitating querying through GraphQL endpoints; empowered over **500+** customers with **real-time intelligent analytics** of communication data
- Led a team of five members in the development of the Voicemail Group and Call Queue features within the Cisco Control Hub portal; employed **Angular, Spring Boot, and SQL** technologies to deliver these features, enabling **7000+** Webex administrators to efficiently manage calling services
- Spearheaded a security initiative to implement burst filters in the **log4j** framework of Cisco's backend services reducing the possibility of DNS attacks by **67%**
- Collaborated with three team members to create an Automation Framework utilizing Cypress for the Webex Calling UI application, resulting in an **80% reduction** in manual testing efforts

Sopra Steria

Data Science Intern

Noida, India
May 2019 – June 2019

- Designed a **machine learning (ML) based relational model** for clustering US patent datasets; leveraged techniques including LDA model, K-means, hierarchical clustering, and Tf-Idf to achieve an accuracy of **91%**

Simbiotik Technologies

Software Development Intern

Kuala Lumpur, Malaysia
May 2018 – June 2018

- Developed a comprehensive full-stack application, employing the **MEAN stack**, for a global sporting company; connected over **2000+** coaches and students worldwide, allowing seamless communication and collaboration

PROJECTS

Guess What – Pictionary Webex Embedded App | Cisco

August 2021

- Developed a Pictionary Game Application seamlessly integrated into Webex meetings using the **Webex Embedded Apps Framework**; enhanced user engagement and interactive experiences during Webex meetings

iDocToc Video Calling Portal

December 2020

- Created an online video calling portal utilizing **React, MongoDB, and Chime SDK**; served as a seamless platform to connect doctors and patients, facilitating easy consultations during the Covid-19 pandemic

Alexa Based Harassment Detection System | Vellore Institute of Technology

April 2019

- Pioneered an **NLP-based** Harassment Detection System using **Feedforward Neural Networks (FNN)**; deployed on AWS and integrated it within **Alexa**, enabling proactive detection of harassment and promoting safety

PUBLICATIONS

- L. Arora, P. Srivastava, A. Kumar (2022).** *Evaluation of Product Reviews using Deep Learning Classifier Models*. 13th International Conference on Computing Communication and Networking Technologies **IEEE 2022**
- L. Arora, A. Kapur, Lavanya K. (2019).** *Prediction of Telecom Churns and Consumer Behaviour using Recurrent Neural Networks*. ISSN: 2249-8958 (Online), Volume-8 Issue-4, April 2019 **IJEAT 2019**

SKILLS

Areas of Competence	Natural Language Processing, Artificial Intelligence, Data Structures & Algorithms, Machine Learning, Deep Learning, Big Data, Software Engineering, Cloud Computing, Full Stack Dev
Languages/Build Tools	Java, C/C++, Python, Javascript, PHP, Angular, NgRx, RxJs, NodeJS, Typescript, HTML, CSS, SQL, Cypress, Selenium, Springboot, Git, Junit, MongoDB, React, Express
Data Science/ML Tools	TensorFlow, Keras, Scikit-learn, Pandas, PyTorch, Numpy, OpenCV, NLTK
Cloud/Big Data Tools	Kafka, Flink, ELK Stack, Kubernetes, Docker, GraphQL, AWS, GCP, Azure, Chime SDK