

# LAKSHAY ARORA

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in lakshay-arora-la

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## EXPERIENCE

### Software Engineer

Cisco

Bangalore, India

📅 Jan 2020 – Present

- Initially joined as a Intern and was converted to a full time Software Engineer in the Webex Calling Division. Later, switched to the Data team of the Webex Contact Center Divison and was promoted to Software Engineer II
- Developed features within the data pipeline that supported real-time processing of events through Kafka and Flink, storing them in Elastic Search and querying through GraphQL endpoints
- Developed full stack features that included building the frontend using Angular, the backend apis using Springboot and adding queries in SQL
- Worked on a Security initiative where we implemented burst filters in our log4j framework which reduced the possibility of DNS attacks by 67%
- Developed an Automation Framework based on Cypress for our UI application that reduced the manual testing effort of the team by 80%

### Data Science Intern

Sopra Steria

Noida, India

📅 May 2019–June 2019

- Developed a relationship model using machine learning for clustering patent datasets using LDA model, Kmeans, Hierarchical clustering and Tf-Idf

### Software Development Intern

Simbiotik Technologies

Selangor, Malaysia

📅 May 2018–June 2018

- Developed a full stack application for a sporting company to connect coaches and students using MEAN stack

## PUBLICATIONS

### Evaluation of Product Reviews Using Deep Learning Classifier Models

IEEE Conference Paper

📅 October 2022

- Accepted in IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT)

### Prediction of Telecom Churns and Consumer Behaviour using Recurrent Neural Networks

IJEAT Research Paper

📅 April 2019

- Published in International Journal of Engineering and Advanced Technology (IJEAT) - ISSN: 2249 – 8958, Volume-8 Issue-4 (April 2019) ©Blue Eyes Intelligence Engineering & Sciences Publication

## PROJECTS

### Guess What - Pictionary App

Webex Embedded Application

📅 July 2021 – August 2021

- Developed a Pictionary Game Application that can be embedded into Webex meetings using the Webex Embedded Apps Framework

## EDUCATION

### B.Tech in Computer Science Engineering

Vellore Institute of Technology

📅 July 2016 – June 2020

9.54 CGPA

### 12th Standard

Delhi Public School Indirapuram

📅 April 2015 – March 2016

92.8%

### 10th Standard

Global Indian International School, Kuala Lumpur, Malaysia

📅 April 2013 – March 2014

10 CGPA

## SKILL SET

### Technologies

Natural Language Processing  
Artificial Intelligence Machine Learning  
Big Data Processing Image Processing  
Social Network Analysis Web Mining  
App Development Full Stack Development

### Programming

Java C/C++ Python HTML CSS  
Javascript PHP Angular Typescript  
NgRx RxJs NodeJS SQL MongoDB  
Cypress Selenium Kafka Kubernetes  
Elastic Search Flink Git TensorFlow  
Keras Springboot JUnit GraphQL

## SOCIAL WORK

### Covid Ambulance Volunteer

Cisco

- Volunteered to help find ambulance services for needy people during Covid

### Educational Volunteer

GraceHomes

- Volunteered to educate students in the orphanage

### Core Committee Member

Anokha NGO

- Educated middle school students in the nearby orphanages

### Member

GIIS Interact Club

- Spearheaded social campaigns such as food donations

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## Movie Recommendation System

### Machine Learning

📅 June 2021 – July 2021

- Developed a Movie Recommendation System using Correlation on MovieLens kaggle dataset.

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## iDocToc Video Calling Portal

### Full Stack Application

📅 June 2020 – December 2020

- Developed a video calling portal during Covid to connect doctors and patients using AWS Chime SDK

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## Relational Model on Patents

### Natural Language Processing

📅 May 2019 – June 2019

- Developed ML based Relational Models to cluster different datasets of patents using LDA model, Kmeans, Hierarchical clustering and Tf-Idf

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## Alexa Based Harassment Detector

### Natural Language Processing

📅 January 2019 – April 2019

- Built a NLP based Harassment Detector using Feed Forward Neural Networks and integrated it within Alexa as a skill

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## Face Detection Software

### Image Processing

📅 January 2019 – April 2019

- Developed a Facial Detection System using OpenCV that implemented Haar Cascade and LBPH algorithm

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## Twitter Analytics Tool

### Natural Language Processing

📅 January 2019 – April 2019

- Developed a Twitter Analytics Tool that analysed tweets and performed Sentiment Analysis on the tweets

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## Credit Card Fraud Detection

### Machine Learning

📅 August 2018 – September 2018

- Developed a ML model that could detect credit card fraud using Naive Bayes and Adaboost on the credit card kaggle dataset

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## Bounx Sporting Website

### Full Stack Application

📅 June 2018 – July 2018

- Developed a full stack sporting software to connect coaches and students using MEAN stack.

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## Checkmate Application

### Full Stack Application

📅 Jan 2018 – April 2018

- Developed a full stack chess application using NodeJs by following the SDLC Process using Agile Methodologies
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## COURSES & CERTIFICATIONS

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Azure Fundamentals

Microsoft

Cisco Brown Belt Security Ninja

Cisco

Algorithms on Graphs

UC San Diego

Data Structures

UC San Diego

Introduction to Software Testing

University Of Minnesota

Introduction to HTML5

University Of Michigan

Natural Language Processing in TensorFlow

Deeplearning.ai

Machine Learning with Python

IBM

Applied Machine Learning in Python

University Of Michigan

Parallel Programming in Java

Rice University

Single Page Web Applications with AngularJS

John Hopkins University

A developer's guide to the Internet of Things

IBM

Applied Social Network Analysis in Python

University Of Michigan

Fundamentals of Network Communication

University of Colorado