

# Adisakshya Chauhan

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## Publications

Jul 2021 Sharma, B., Bansal, P., Chugh, M., **Chauhan, A.**, Anand, P., Hua, Q., & Jain, A. (2021). Benchmarking geospatial database on Kubernetes cluster. EURASIP Journal on Advances in Signal Processing, 2021(1), 1-29. Springer

## Experience

### Data Engineer (BTSA)

New Delhi, India

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Aug 2021 - Present

- Developing and delivering data warehousing solutions using AWS EMR, Apache Spark for analyzing and interpreting real world data to empower a successful venture.

### Software Development Engineer Intern

Bangalore, India (Remote)

TRIVEOUS TECHNOLOGIES PRIVATE LIMITED

May 2020 - Sept. 2020

- Implemented multiple event-driven API microservices in Node.js NestJS and managed their deployments on AWS ECS.
- Built a scalable notification delivery system using Redis, FCM, AWS SNS, SES and SQS.
- Spin up a cost-effective, automated GitLab Runner setup on AWS that scales in/out on demand and also offers the possibility to switch off the entire stack at predefined time intervals to save costs.
- Implemented an image-caching service supporting on-demand crop, resizing and flipping of images while serving.
- Built an automated status-page for multiple services using Atlassian Statuspage, AWS Cloudwatch Events and Lambda.

### Technical Mentor

New Delhi, India

SOLVE FOUNDATION (INTELLIFY/INDIAN ROAD SAFETY CAMPAIGN)

Jan. 2020 - Mar. 2020

- Mentored development of online web-portal and mobile application for National Science and Creativity Program (NSCP).
- Assisted the team in the design, implementation and debugging processes in all aspects of front-end, back-end, APIs, android or deployments.
- Designed a development methodology to smoothen the development-process of Intellify making it more efficient and trackable.
- Managed the complete source-code version-control for proper code reviews and merges of any fixes, updates and features.
- Setup analytics for tracking and reporting NSCP website traffic that provided in-depth detail about visitors on the website.

### Python & Web Developer Intern

New Delhi, India

INTELLIFY, INTERNSHIP

May 2019 - Jul. 2019

- Designed and implemented an user-based collaborative-filtering online quiz-recommendation system for The International Science and Creativity Olympiad (ISCO).
- Implemented REST API using Python for compiling, analysing and presenting the results of students and schools for all rounds in ISCO.
- Designed and implemented front-end web-pages for Intellify website and exam portal using Bootstrap framework.

### Software Development Engineer Intern

Noida, India (Remote)

BYTESCARE

Mar. 2019 - Aug. 2019

- Automated the process of privacy data collection and take-down procedures for content creators.
- Built a mail-caching, monitoring and processing system as REST API using Node.js, that processes all emails for a take-down request, applying NLP algorithm implemented using Python and Natural Language Toolkit (NLTK).
- The NLP algorithm along with other modules is used to classify the type of response for a take-down request email and monitor the mail conversation for every request.
- The algorithm for language processing is similar to sentiment-analysis but is customized to work with emails and uses a corpus of approximately 1,00,000 formal/informal and positive/negative responses.

## Education

### Bachelor of Technology in Computer Science and Engineering

New Delhi, India

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY, CGPA: 9.453/10

Aug. 2017 - Jul 2021

### Senior Secondary

Madhya Pradesh, India

CENTRAL BOARD OF SECONDARY EDUCATION, KENDRIYA VIDYALAYA PACHMARHI, PERCENTAGE: 88.4, STREAM: SCIENCE

Aug. 2015 - May 2016

### High School

Assam, India

CENTRAL BOARD OF SECONDARY EDUCATION, ARMY PUBLIC SCHOOL TEZPUR, CGPA: 9.8/10

Aug. 2013 - May 2014

# Achievements & Certifications

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Dec 2021	<b>Analyzing Big Data with SQL</b> , certification with honors, focusing on architecture & usage of big data distributed SQL engine Apache Hive.	<i>Coursera (Online)</i>
Aug 2020	<b>Google IT Automation Professional Certificate</b> , Certified in automating system administration tasks and applying automation at scale by using configuration management and the Cloud using Python.	<i>Coursera (Online)</i>
Jun 2020	<b>AWS Specialization</b> , Certified specialization from AWS on essential and core services, key security concepts, migrations and handling serverless applications.	<i>Coursera (Online)</i>
Mar 2020	<b>100 Percentile</b> , in Computer Science module of AMCAT exam, and according to my score I'm employable for profiles of Software Engineer - IT Services and Product.	<i>New Delhi, India</i>
Jan 2020	<b>First Position</b> , 2018-19 academic session, Maharaja Surajmal Institute of Technology.	<i>New Delhi, India</i>
Sep 2019	<b>First Runner Up</b> , Infosys Digital Makeathon 2.0 Chandigarh DC.	<i>Chandigarh, India</i>
Apr 2019	<b>Elite Certification</b> , Ranked in top 5% toppers in the certification exam for Data Structures and Algorithm using Python by National Programme on Technology Enhanced Learning (NPTEL).	<i>New Delhi, India</i>

# Projects

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## Continuous Improvement

ANSIBLE, KUBERNETES, AWS, TRAVIS, KONG, DOCKER, NODEJS, TYPESCRIPT, POSTGRESQL

Summer 2020

- Highlighted key concepts to scale, synchronize and secure event-driven microservices architecture.
- Provisioned an easily manageable infrastructure for event-driven microservices architecture utilizing IaC (Infrastructure as Code).
- Built fully-automated CI/CD pipelines for containerized microservices using Docker, Ansible, and Travis deploying microservices on Kubernetes.
- Extended the Kubernetes Ingress API using Kong Ingress Custom Resource to implement gateway level security for securing APIs across the Kubernetes cluster.

## F.R.I.D.A.Y

PYTHON, NATURAL LANGUAGE PROCESSING, AIML, SPEECH-TO-TEXT, TEXT-TO-SPEECH

Fall 2019

- Inspired from MCU, Female Replacement Intelligent Digital Assistant Youth (F.R.I.D.A.Y) is designed as a personal assistant.
- Capable of performing system-level tasks like reporting system information, memory utilization, performance statistics, send system into hibernate/shutdown/sleep mode, taking screenshots on screen, answer what's near-me queries, provides live weather information on users current location.
- Understands text as well as speech inputs.

# Skills

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<b>Programming Languages</b>	Python, TypeScript, Javascript, C++, C, JAVA, Assembly
<b>Frameworks</b>	Flask, Django, ExpressJS, NestJS, Electron, Bootstrap
<b>Development Tools</b>	Docker, PySpark, Kubernetes, Ansible, Nginx, Jenkins, Travis CI, Node.js, Redis, Firebase, Elasticsearch, Cipher, GraphQL, Scikit-Learn, Tensorflow, OpenCV, Bash, Latex
<b>Version Control</b>	Git
<b>Database</b>	PostgreSQL, Amazon DynamoDB, MySQL, MongoDB, Neo4j
<b>Operating Systems</b>	Linux, Windows
<b>Cloud Technologies</b>	AWS, Heroku, GCP
<b>Search Engine Optimization</b>	Google Analytics, Google Search Console, Google Page Speed Insights, Lighthouse
<b>Languages</b>	English, Hindi, French