Adisakshya **Chauhan**

(+91) 920-500-8365 | adisakshya@outlook.com | adisakshya.github.io | adisakshya | adisakshya

Publications

In Review	Sharma, B., **Chauhan, A.**, Tomer, M., Chugh, M., & Wadhwa, A. (2022). Multi-document Text Summarization using Whale Swarm Optimization.	
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

Sr. Big Data Engineer (Business Technology Solutions Associate Consultant)   *New Delhi, India*

ZS, Full-time   *Aug 2021 - Present*

- Designing and implementing robust data engineering pipelines, orchestrating seamless data processing and transformation workflows, and ensuring the highest standards of data quality and integrity throughout the pipeline.
- Enhancing the ZS software product, crafting cutting-edge features based on client needs, meticulously testing for top-notch quality and scalability, and driving forward product-level enhancements, development, and release deployment that keep us ahead of the curve.

Software Development Engineer   *Bangalore, India*

Triveous Technologies Private Limited, Internship   *May 2020 - Sep 2020*

- Developed and deployed event-driven API microservices in Node.js with NestJS on AWS ECS, improving system performance and scalability.
- Built a highly scalable notification delivery system using Redis, FCM, AWS SNS, SES, and SQS.
- Established a cost-effective, automated GitLab CI/CD runner setup on AWS, enabling scalability on-demand and optimizing cost-efficiency.
- Implemented an image-caching service for on-demand image manipulation, improving load time and enhancing user experience.
- Created an automated status page using Atlassian Statuspage, AWS CloudWatch Events, and Lambda, enhancing service visibility and incident management.

Technical Mentor   *New Delhi, India*

Solve Foundation (Intellify/Indian Road Safety Campaign), Full-time   *Jan 2020 - Mar 2020*

- Mentored the development of an online web portal and mobile application for the National Science and Creativity Program (NSCP), overseeing the logic design and implementation plans for front-end, back-end, APIs, and Android.
- Provided technical mentoring, guidance, and code reviews to the technology team, ensuring adherence to coding best practices, and addressing technical challenges to provide effective solutions for web and Android application development.
- Implemented analytics to track and report NSCP website traffic and user engagement, providing in-depth insights about website visitors.

Python & Web Developer   *New Delhi, India*

Intellify, Internship   *May 2019 - Jul 2019*

- Designed and developed a user-based collaborative-filtering online quiz recommendation system for The International Science and Creativity Olympiad (ISCO), enhancing the user experience and engagement.
- Implemented a REST API using Python to compile, analyze, and present the results of students and schools for all rounds in ISCO, providing comprehensive and easily accessible data for evaluation and decision-making.

Software Development Engineer   *Noida, India*

Bytescare, Internship   *Mar 2019 - Aug 2019*

- Automated the process of piracy data collection and take-down procedures for content creators, improving efficiency and reducing manual effort.
- Developed and implemented an NLP algorithm to classify and monitor email conversations for take-down requests, improving efficiency and accuracy in handling content piracy issues.
- The algorithm considered various factors such as formal vs. informal language, positive vs. negative sentiment, and other linguistic features to classify and monitor the email communication related to take-down requests.

Education

Bachelor of Technology in Computer Science and Engineering (B.Tech CSE)   *New Delhi, India*

CGPA: $9.45/10$, Guru Gobind Singh Indraprastha University, Maharaja Surajmal Institute of Technology   *Aug 2017 - Jun 2021*

Senior Secondary (10+2)   *Madhya Pradesh, India*

Pecentage: 88.4%, Stream: Science, Central Board of Secondary Education, Kendriya Vidyalaya Pachmarhi   *Aug 2015 - May 2016*

High School (10th)   *Assam, India*

CGPA: $9.8/10$, Central Board of Secondary Education, Army Public School Tezpur   *Aug 2013 - May 2014*

Achievements & Certifications

Sep 2022	**Neo4j Certified Professional**, demonstrated expertise in Neo4j property graph model, cypher queries, graph data modeling, and application development concepts. Test score - 91.9/101.	*Online*
Dec 2021	**Analyzing Big Data with SQL**, developed strong proficiency in the architecture and usage of big data distributed SQL engines to effectively analyze and query large-scale datasets using SQL within a distributed computing environment.	*Online*
Aug 2020	**Google IT Automation Professional Certificate**, equipped with the skills to automate system administration tasks and implement automation at scale and hold expertise in implementing configuration management using Python, allowing for efficient and streamlined administration of systems.	*Online*
Jun 2020	**Amazon Web Services (AWS) Specialization**, developed strong proficiency with essential and core AWS services, key security concepts, and handling serverless applications.	*Online*
Mar 2020	**100 Percentile**, in Aspiring Minds Computer Adaptive Test (AMCAT) exam for computer science.	*New Delhi, India*
Jan 2020	**First Position**, 2018-19 academic session, B.Tech CSE - Maharaja Surajmal Institute of Technology.	*New Delhi, India*
Sep 2019	**First Runner Up**, Infosys Digital Makeathon 2.0 Chandigarh DC.	*Chandigarh, India*
Apr 2019	**NPTEL Elite Certification**, Ranked in top 5% toppers in the certification exam for Data Structures and Algorithm using Python by National Programme on Technology Enhanced Learning (NPTEL).	*New Delhi, India*

Projects

Continuous Improvement

Kubernetes, AWS, Docker, PostgreSQL, Ansible, Travis, Kong, NodeJS, Typescript

- Showcased expertise in scaling, synchronizing, and fortifying event-driven microservices architecture.
- Orchestrated a highly manageable infrastructure for event-driven microservices, employing cutting-edge Infrastructure as Code (IaC) practices.
- Pioneered fully-automated CI/CD pipelines for containerized microservices, leveraging the power of Docker, Ansible, and Travis CI. Deployed these resilient microservices on the dynamic AWS EKS platform.
- Spearheaded the expansion of Kubernetes Ingress API using the Kong Ingress Custom Resource. Achieved unparalleled gateway-level security for safeguarding APIs across the entire Kubernetes cluster.

F.R.I.D.A.Y

Natural Language Processing, AI/ML, Speech-to-text, Text-to-speech, Python

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

Skills

Programming Languages	Python, TypeScript, Javascript, C++, C
Domain Specific Languages	SQL, Shell, Cipher, GraphQL, Latex, HTML
Frameworks	Flask, Django, ExpressJS, NestJS, Electron, Bootstrap, JUnit, PyTest
Tools and Technologies	PySpark, Docker, Kubernetes, Ansible, Nginx, Jenkins, Travis CI, Node.js, Redis, Firebase, Elasticsearch, Jira
Version Control	Git, GitHub, GitLab, Bitbucket
Database	PostgreSQL, Neo4j, AWS RDS, AWS DynamoDB, MongoDB
Operating Systems	Linux, Windows
Cloud Technologies	AWS, GCP
Search Engine Optimization	Google Analytics, Google Search Console, Google Page Speed Insights, Lighthouse
Languages	English, Hindi, French