

# ADITYA SHARMA

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## EDUCATION

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### New York University, New York, NY

*Master of Science, Computer Science*

Sep 2021 – May 2023

**Relevant Coursework** – Cloud Computing and Big Data Systems, Design and Analysis of Algorithms, Computer Networking, Information Security and Privacy, Operating Systems, Programming Languages

### SRM Institute of Science and Technology, Chennai, India

*Bachelor of Technology, Computer Science*

Jun 2017 – May 2021

**Relevant Coursework** – Data Structures, Software Engineering, Database Management, Operating Systems, Web Programming, Object Oriented Programming, Theory of Computation, Computer System Architecture

## EXPERIENCE

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### CRMNext Pvt Ltd

Summer Intern

Noida, India

May 2019 – June 2019

- Designed operators required in DataNext for the data processing pipelines on Apache Beam using Python and Java programming languages.
- Optimized the run-time of operators by 30%.
- Increased efficiency of the overall pipeline by 15%.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Unix (Command Line), C, C++, Java, SQL, MongoDB, Front-End (HTML5, CSS3), Back-End (NodeJS, ExpressJS, ReactJS)

**Database and Cloud:** Elasticsearch, DynamoDB, MySQL, AWS (Lambda, S3, OpenSearch, Lex, SQS, SNS)

**ML Libraries:** NumPy, TensorFlow, Keras, Pillow, BeautifulSoup, OpenCV, Seaborn, Sklearn, Matplotlib, Tkinter

**ML Concepts Applied:** Image Processing, CNN, ANN, Object Detection, Web Scraping

## PUBLICATIONS

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### Indian Sign Language to Text in Real Time using Machine Learning

Apr 16, 2021

*International Journal of Engineering Applied Science and Technology (IJEAST)*

Having thought of a constant strategy utilizing neural organizations for fingerspelling dependent on Indian gesture-based communication we developed an application to predict the hand gestures with an accuracy of 95.7%.

## PROJECTS

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### Dining Concierge Chatbot using AWS (AWS - S3, Lambda, Lex, SNS, SQS, DynamoDB, OpenSearch)

March 2022

Created a Dining Concierge Chatbot that suggests restaurants in the New York City area. It inputs a set of preferences that the users provide through a conversation with the Chatbot. The preferences are - the area to dine-in, the choice of cuisine, the time to dine-in at, etc.

### Sign Language to Text using Machine Learning (Python – OpenCV, Keras, Tkinter)

May 2021

Uses dynamic hand signs and trains a neural network using CNN and ANN and uses Adar optimizer for the neural network. It recognizes hand signs and converts them into words and sentences.

### Cricket Website Scraping to Graph (Python – BeautifulSoup, Pandas, NumPy)

June 2019

Scraped the CricBuzz website and dumped the information to understand and visualize the history of the Cricket World Cup 2019.