

ADITYA SHARMA

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EXPERIENCE

Standard Motor Products

Programmer/Analyst Intern

Queens, NY

June '22 – Aug '22

- Worked on a dataset of more than 400,000 automobile parts, including cars, trucks, tractors, etc. Implemented stored procedures on SQL Server and integrated them with Microsoft Suite Tools for the easy organization and update of the data warehouse.
- Developed user-friendly forms on Microsoft Tools to automatically validate the user data, reducing the error percentage by 25%.
- Optimized the run-time of the stored procedure to update the database by upwards of 70%.
- Extensively worked in SSIS development and created Data Transformation Services Executable files for easy automation of updates. Developed scripts for automating their execution every week.

CRMNext

Summer Intern

Noida, India

May '19 – June '19

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

SKILLS

- **Proficient Languages:** Python, JavaScript, C/C++, HTML, CSS, SQL
- **Data Analysis Tools:** R, Excel, Tableau, PowerBI, VBA, Access
- **Database and Cloud:** SQL, MongoDB, Elasticsearch, DynamoDB, AWS (Lambda, S3, OpenSearch, Lex, SQS, SNS), SSIS
- **ML/Python Libraries:** NumPy, TensorFlow, Keras, Pillow, BeautifulSoup, OpenCV, Seaborn, Sklearn, Matplotlib, Tkinter
- **ML Concepts Applied:** Image Processing, CNN, ANN, Object Detection, Web Scraping

EDUCATION

New York University, New York, NY

Master of Science, Computer Science

Sep '21 – Present

Relevant Coursework – Cloud Computing and Big Data Systems, Design and Analysis of Algorithms, Foundations of Data Science, Big Data, Computer Networking, Information Security and Privacy

SRM Institute of Science and Technology, Chennai, India

Bachelor of Technology, Computer Science

Jun '17 – May '21

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

ACADEMIC PROJECTS

AWS Smart Photo Album (*S3, Lambda, CodePipeline, CloudFormation, OpenSearch, API*)

April '22

- Implemented a photo album web application that can be searched using natural language through text and voice.
- Used Lex, ElasticSearch, and Rekognition to create an intelligent search layer to query photos for people, objects, actions, landmarks, etc.

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

March '22

- Developed a Dining Concierge Chatbot that suggests restaurants in the New York City area.
- Inputs a set of preferences, such as area to dine in, the choice of cuisine, the time to dine in, etc., that the users provide through a conversation with the Chatbot.

Sign Language to Text using Machine Learning (*OpenCV, Keras, Tkinter*)

May '21

- Programmed real-time hand signs and trained a neural network using CNN and ANN, which uses Adam optimizer for the neural network.
- Recognizes hand signs and converts into words and sentences with an accuracy of **95.7%**.

Cricket Website Scraping to Graph (*BeautifulSoup, Pandas, NumPy*)

June '19

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

PUBLICATIONS

Indian Sign Language to Text in Real-Time using Machine Learning (*OpenCV, Keras, Tkinter*)

Apr '21

International Journal of Engineering Applied Science and Technology (IJEAST)

- Deployed neural organizations for fingerspelling dependent on Indian gesture-based communication and engineered an application to predict hand gestures with an accuracy of **95.7%**.