

Aditya Agrawal

Software Engineer

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EDUCATION

- **SRM Institute of Science and Technology** Chennai, India
B.Tech in Computer Science; GPA: 9.58 *October, 2020 - June, 2024*
Courses: Operating Systems, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Probability and Statistics and Network Security.

EXPERIENCE

- **SRMIST** Chennai, India
Undergraduate Researcher *June, 2022*
 - **Research:** Attempted to deliver a finer model than the baseline existing VQA Model. Experimented with a combination of Transformers, CNNs and LSTM. Additional Research endeavours involve 3D-VQA and customization of ScanQA.
- **Helpen.In** Bangalore, India
Android Developer Intern *September, 2022 - October, 2022*
 - **Front End:** Optimized the application's user interface by using the Flutter framework; yields a 60% enhancement in the user experience.
 - **Testing:** Worked with a group of 5 people to conduct numerous bug testing and to execute modifications that would improve the user experience; increased the application speed by 40%.

COMMUNITY

- **SRM ACM** Chennai, India
Chairman *January, 2022*
 - **Management:** Directing and managing the most exclusive student club in India that aims to improve the working and learning environments for students in computing.
 - **Mentor-ship:** Guided, mentored and recruited 50+ new recruits in their product development projects pertaining to machine learning and web development.
- **Next Tech Lab** Chennai, India
Member *April, 2021*
 - **Engagement:** Organizing events and workshops for groups of 100+ students to increase cumulative learning and productivity.
 - **Mentor-ship:** Guided, mentored and recruited 30+ new recruits in their research and product development projects pertaining to machine learning and artificial intelligence.

PROJECTS

- **Interview Creation Portal:** Built a web-based application using Node.JS, Express, and MongoDB that allows administrators to schedule, modify, and remove interviews. The meeting will be set if there are more than 2 participants and no other meetings are already scheduled for them.
- **Image Denoiser:** Developed an automated process that denoises distorted images without knowing the noise level. Reduces human effort by 50% and ensures a good representation which will help recover the corresponding clean information.
- **Automatic Number Plate Recognizer:** An automated model to extract and recognize the vehicle's license plate by using Py-tesseract and Open-CV. Tasks such as automatic toll collection and traffic enforcement become automatic with ANPR systems and reduce human effort by 30-50%.
- **Easy-Visual Question Answering:** Implemented convolutional neural network and LSTM model together to provide responses to queries about a picture from a pool of 13 options. The model can be easily trained on CPUs with low computational power and compared to the original model, training time is cut by 70%.
- **Face Recognition Attendance System:** Developed an automatic attendance system using a person's facial features. Different group of people such as employees, students, etc make use of this to keep track of their attendance in their organization.

SKILLS SUMMARY

- **Languages:** C++, Python, C, SQL, Javascript, Dart.
- **Libraries and Frameworks:** TensorFlow, PyTorch, OpenCV, MySQL, Pandas, Sklearn, Flutter.

HONORS AND AWARDS

- **Amazon ML Summer School (2022)**
- **Scholarship for Academic Excellence, SRMIST (2021)**
- **Member of Association for Computing Machinery (2022)**