

# Gurkirat Singh Sehgal

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## EDUCATION

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**National Institute of Technology Karnataka, Surathkal**

*Masters in Computer Applications - CGPA: 9.43*

Surathkal, Karnataka

*Aug 2024 – July 2027*

**University of Delhi**

*Bachelor of Science (Hons.) in Computer Science - CGPA: 9.203*

New Delhi, Delhi

*Aug. 2020 – July 2023*

## PROJECTS

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**ASL Detection Using Mediapipe** | *Python, Machine Learning, Computer Vision*

- Designed and implemented a real-time ASL (American Sign Language) recognition system using Python and Mediapipe's hand tracking pipeline.
- Processed live webcam input via OpenCV to capture and extract hand landmarks in real time.
- Attained 95% accuracy, improving communication for individuals with hearing impairments.

**Restaurant Management Application** | *Java, Java Swing, MySQL, IntelliJ*

- Developed a Java-based desktop application to streamline restaurant operations with key modules for employee management, order processing, and payment tracking.
- Implemented a robust login and role-based authentication system to ensure secure access for admins and staff.
- Integrated a MySQL database using JDBC for persistent storage and full CRUD (Create, Read, Update, Delete) functionalities.

**ColorPick Pro - A Chrome Extension** | *HTML, CSS, JavaScript, Chrome APIs*

- Developed a lightweight Chrome Extension using the EyeDropper API to allow users to pick and extract colors directly from any webpage.
- Implemented an intuitive interface that automatically copies the selected color's hex code to the clipboard for quick use in design workflows.

## TECHNICAL SKILLS

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**Languages:** C++ (Adept), Java, Python, SQL

**Web Technologies:** HTML, CSS, JavaScript, Bootstrap, React

**Developer Tools:** Git/GitHub, VS Code, PyCharm, IntelliJ

**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, DBMS, OOPS

## EXTRA-CURRICULAR

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**CurieuX - The Computer Science Society**

*Member*

Mar 2021 – July 2023

- Coordinated with the different teams to help organize multiple tech events, coding competitions, and hands-on workshops.
- Contributed to the media team by designing promotional content including posters, banners, and digital media assets to increase event participation.