

RAGHAV SHARMA

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EDUCATION

- National Institute of Technology** Hamirpur, Himachal Pradesh, India
Master of Technology - CSE; CGPA: 8.12 August 2023 - Present
- Guru Nanak Dev Engineering College** Ludhiana, Punjab, India
Bachelor of Technology - CSE; CGPA: 8.45 July 2019 - June 2023
- GATE** India
Qualified GATE (CSE) February 2023
Courses: DSA, Algorithms, Computer Networks, Cyber Security, Computer Graphics, DBMS, Mathematics, ML, AI, Digital Logic, FLAT, Computer Architecture

SKILLS SUMMARY

- Languages and Software:** C, C++, Python, HTML/CSS, MySQL, Bash, Frappe Framework
- Tools:** Jupyter Notebook, Excel, PowerPoint, Reveal.js, VS Code, Vim, Nano, Docker
- Platforms:** Linux, Cloud/Web, Windows
- Soft Skills:** Leadership, Presentation, Writing, Public Speaking, Report Analysis
- Currently Practicing:** Exploring Apache Airflow, Machine Learning, Cloud Computing, and Prompt Engineering

PROJECTS

- Self-Driving Car (Robotics):** Developed an autonomous vehicle using Arduino that detects boundaries via color differences, stops for obstacles, and uses a robotic arm to lift small barriers. Participated in a national-level robotics event (2017).
- COVID-19 Analysis using Power BI:** Processed public COVID-19 data in Excel and visualized key trends in Power BI to extract actionable insights (October 2021).
- Mood Detection System:** Built a smile recognition-based mood detection system using Python, OpenCV, and Kaggle datasets (August 2022).
- Sign Language Recognition System:** Used YOLOv5 and IoT hardware to recognize ASL signs for facilitating communication with specially abled individuals (2023).
- Inventory Management System:** Developed a Django-based inventory system, later containerized with Docker and backed by MySQL (November 2024).

EXPERIENCE

- SDC Intern (GNDEC)** Worked in the Software Development Center at GNDEC. Developed software systems using Frappe for GNDEC and Nankana Sahib School including library management, admissions, and course allocation. Also co-developed a Construction and Maintenance Cell (CMC) system for Nankana Sahib Trust (August 2023).
- Stryker Internship** Selected for internship at Stryker, a leading medical technologies firm (August 2023).

CERTIFICATIONS

- Cracked GATE (CSE)
- Certificate of Merit - EDUHEAL Foundation
- National Level Kabbadi (NITH - Nati Competition)
- Data Science with Python - Coursera (May 2021)
- Machine Learning with Python - Coursera (June 2021)
- National Level Robotics Competition - Noida
- Hostel Mess Deputy Secretary

VOLUNTEER EXPERIENCE

- Nati Club**
- Preserved Himachal's cultural heritage through organizing traditional Nati dance competitions*
- Finance Deputy Secretary** 2023
Ensured smooth financial operations during the annual "Hill Fair" fest
- Vice-President, Swachh Bharat Club** 2023
Organized cleanliness drives to maintain hygiene around NITH campus
- Data Science Training** 2024
Completed 1-month training focused on data filtering and insight derivation

REFERENCES

- **Ishan Bajaj**
People's Manager, Stryker — Contact: +91 99998 51871