

# LOVEPREET SINGH

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## Objective

Dynamic B.Tech CSE student (9.4 CGPA) passionate about turning ideas into impactful software. Skilled in Python, Java, JavaScript, React, Django, and machine learning. I enjoy building smart web and AI solutions that solve real-world problems.

## Education

### Dev Bhoomi Uttarakhand University

B.Tech, Computer Science and Engineering, CGPA: 9.4/10

September 2022 – May 2026 (Expected)

Dehradun, Uttarakhand

### Universal Convent Senior Secondary School

12th PCM + Computer Science, CBSE (91%)

June 2021

Haldwani, Uttarakhand

### Universal Convent Senior Secondary School

10th, CBSE - (85%)

May 2019

Haldwani, Uttarakhand

## Technical Skills

**Programming Languages** : Python, C, Java, JavaScript

**Web Technologies**: React, Django, Node.js, HTML5, CSS3, Responsive Design

**Database**: SQL, MongoDB

**AL/ML** : OpenCV, YOLOv8, TensorFlow, NumPy, Pandas, Matplotlib, scikit-image

**Cloud Computing** : Google Cloud, AWS

**Core** : Data Structures & Algorithms, Object-Oriented Programming

**Tools** : Git, GitHub, Tkinter, VS Code, IntelliJ, PyCharm

## Internship

### TechOctaNet Services PVT LTD

June 2024 – August 2024

Front End Web Developer Intern, Remote

Github.com/Lovepreet04/OCTANET\_JUNE

- Developed responsive web pages using HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility.
- Automated daily test result delivery, improving team efficiency by 10%.

### Prodigy InfoTech

May 2024 – June 2024

Software Developer Intern, Remote

Github.com/Lovepreet04/PRODIGY\_SD

- Built Python-based algorithms, optimizing performance by 15% for efficient data processing.
- Collaborated using Git, enhancing code quality for 100+ beta testers.

## Projects

### Examination Management System | React.js, Node.js, Express.js, PostgreSQL

May 2025

- Developed a full-stack web app to automate exam scheduling, grading, and result processing.
- Built an online copy-checking system for faculty to review exam submissions.
- Implemented AI-based proctoring for MCQ exams to ensure fairness and prevent cheating.

### Text Editor Application | Java, Swing

January 2025

- Developed a text editor for editing, formatting, and file management.
- Added syntax highlighting and search/replace, boosting user efficiency.

### Farm Management System by Object Detection | Python (openCV, Yolo8, Tkinter)

November 2024

- Developed an automated FMS using OpenCV and Yolo8 for real-time object detection and tracking of farm assets.
- Implemented an alert system to notify users about unauthorized intrusions detected in the field.
- Applied ML using NumPy, Pandas, matplotlib, TensorFlow, and scikit-image for Plant Leaf disease detection.

### Image and Video Manipulation Website (BeautiCam) | React.js, Django, HTML, CSS, OpenCV

April 2024

- Built a responsive web app for uploading and editing images and videos with real-time filters and live previews.
- Integrated OpenCV for image processing, allowing video editing such as resizing, filtering, and frame extraction.
- Used Python server-side scripting for optimized image processing and performance.

## Certification

### Entrepreneurship Essentials

January 2025 – April 2025

NPTEL, IIT Kharagpur

Roll No.: NPTEL25GE11S1244000889

### Career Essentials in Generative AI

February 2025

Microsoft and LinkedIn

www.linkedin.com/learning/certificates

### Google Cloud Computing

February 2024 – May 2024

Google Cloud Skills Boost

www.credly.com/badges/098658e8-efdf-4e3e-9fd9-0354744c1fcc

## Achievements

- Qualified GATE 2025 (Graduate Aptitude Test in Engineering).
- Led and won a technical Treasure Hunt competition (Shabd Leela).
- Organized 3-days Event (Low-Code/No-Code), containing bug finding, Pitch presentation, and AI prompting.
- Maintained a consistent SGPA of 9+ per semester.