# HIMANSHU KUMAR SINGH

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## EDUCATION

**Vellore Institute of Technology**                                            *Bhopal, India*
B.Tech Computer Science and Engineering, Ongoing    GPA: 8.47    Expected September 2026

**Army Public School**                                            *Ambala Cantt, India*
Higher Secondary    88.0% (PCM)                                            Jun 2022

**Army Public School**                                            *Ambala, India*
Matriculation - 94.1%                                            May 2020

## SKILLS

| | |
|---|---|
| **Programming Languages** | Java, Javascript, C++, Python, SQL |
| **Frameworks/Tools** | ReactJS, NodeJS, Scikit, MongoDB, Git |
| **Relevant Coursework** | Object-oriented programming, Database management system, Operating System, Cloud computing (Intermediate), Computer Networking |

**Certifications**

## PROJECTS

**Automatic File Indexer**                                            *Feb 2024*

- Developed an AI-powered content classification tool using Python, Docker, and MySQL, automating 80% of file organization tasks.

- Integrated MAX-Object-Detector (SSD & Faster-CNN) trained on COCO Dataset, achieving 95% accuracy in image classification.

- Enhanced efficiency by implementing NLP-based text sorting, improving searchability and retrieval by 60%.

- Designed a real-time database indexing system, streamlining metadata storage and retrieval processes.

**MetaCrawler**                                            *Oct 2023*

- Engineered a web scraping and data summarization tool with Python, BeautifulSoup, and PageRank, optimizing search efficiency by 70%.

- Developed an Advanced Search Module, enabling precise filtering and ranking of results using relevance-based algorithms.

- Implemented a two-phase Summarizer Module with NLP, reducing information overload by condensing web content into digestible insights.

- Designed an interactive UI for seamless user experience, boosting accessibility and engagement.

## EXTRACURRICULAR ACTIVITIES

- Served as a Student Council Member (2016-2022), advocating for student concerns and fostering communication between peers, faculty, and administrators.

- Led school-wide initiatives as a Program Manager (2019-2020), optimizing program performance and ensuring compliance with institutional policies.

- Organized civic engagement campaigns as a Cleaning Council Member (2019-2020), strengthening community partnerships and increasing student participation.

- Served on the Organizing Committee for AdVITya (Annual Techno-cultural Fest) in Feb 2023 and 2024, managing event logistics and attracting over 11,000 attendees.