

# YASH GARG

Phone: +91 7669546828 | [yashgarg7302@gmail.com](mailto:yashgarg7302@gmail.com) | [LinkedIn](#) | [Github](#)

## EDUCATION

<b>Dr. B.R. Ambedkar National Institute of Technology</b> Masters of Technology – Computer Science Engineering; <b>CGPA: 8.52</b> (till 2nd sem)	Jalandhar, Punjab, India 2024 – Present
<b>Jaypee University of Information Technology</b> Bachelor of Technology – Computer Science Engineering; <b>CGPA: 8.7</b>	Solan, Himachal Pradesh, India 2020 – 2024
<b>K.L. International School</b> CBSE – Class XII – <b>89.4%</b> ; Class X – <b>91.6%</b>	Meerut, Uttar Pradesh, India 2018 - 2020

## TECHNICAL SKILLS

**Languages:** C, C++

**Coursework:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Machine Learning

## WORK EXPERIENCE

<b>Benthon Labs Pvt. Ltd</b>   Web Developer Intern	Jun 2023 – Aug 2023
<ul style="list-style-type: none"><li>Worked on a <b>Biometric Machine Integration software project</b>, resulting in increase in accuracy of employee attendance records and saving time in administrative tasks.</li><li>Collaborated with team to build a software using <b>React</b> and <b>MongoDB</b> used for database management.</li><li>Engaged in team discussions and problem-solving sessions, improving collaboration and communication skills in a professional work environment.</li></ul>	

## PROJECTS

### SPAM EMAIL CLASSIFIER (C++ , MACHINE LEARNING) | [LINK](#)

- Developed a **spam email detection system** using **Naïve Bayes Classifier** in C++..
- Processed **4,600+ emails** from the **UCI Spambase dataset** to train the model.
- Computed **Confusion Matrix, Precision, Recall, and F1-score** to evaluate model performance.
- Achieved **78.3% accuracy**, with a **precision of 76.62%** and **recall of 81.60%**.
- Implemented **logarithmic probability calculations** to handle numerical underflow.
- Benchmarked model performance on **Weka (80% accuracy)**, validating results against my implementation.

### LANE DETECTION FOR SELF DRIVING CARS | [LINK](#)

- Developed a **real-time lane detection system** using **Python** and **OpenCV**, employing image processing techniques like **Canny edge detection** and **Hough Line Transform**.
- Applied **region of interest masking** to isolate relevant road areas, enhancing **detection accuracy**.
- Calculated **lane slopes and intercepts** to identify lane boundaries and improve vehicle alignment.
- Tech Stack:** Python, OpenCV, Computer Vision Techniques (Canny Edge Detection, Hough Line Transform), Video Processing.

### CPUSCHEDULARVISUALIZATION (OPERATINGSYSTEMSPROJECT) | [LINK](#)

- Developed a **web application for visualizing scheduling algorithms** using basic web technologies like **JavaScript, HTML, and CSS**, enhancing understanding of complex concepts.
- Implemented **interactive simulations** for algorithms such as **FCFS, SJF, Round Robin, and Priority Scheduling**, with dynamic Gantt chart generation.
- Integrated **customizable input options** for process parameters such as arrival times, burst times, and priorities, with an **efficient backend logic** to compute and display key performance metrics like Turnaround Time and Waiting Time, enabling users to experiment with various scheduling scenarios.