

YASH GARG

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EDUCATION

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

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

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 (OPERATING SYSTEMS PROJECT) | [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.