



Vivek Singh

Masters in Computer Applications

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Examination	University / Board	Institute	Year	CPI / %
Post Graduation	NIT Raipur	NIT Raipur	2026	8.38 *
Graduation	University of Delhi	Dyal Singh College	2022	8.67
Intermediate	CBSE	Gurukul Kurukshetra	2019	94.6%
Matriculation	CBSE	Golaya Progressive Public School	2016	9.8

*Pursued Honours in Mathematics during Graduation*  
*\* Currently Pursuing Masters in Computer Applications*

## TECHNICAL SKILLS

Programming	C, C++, Python, Java
Web Development	HTML, CSS, JavaScript
Databases	MySQL, MongoDB
Tools and Platforms	Github, VSCode, UNIX, Postman
Machine Learning	Pandas, NumPy, Scikit-learn, TensorFlow

## PROJECTS

### Research Scholars Conclave 2025 – Official Website Deployment

- Designed and developed an interactive and responsive frontend using HTML, CSS, and vanilla JavaScript, tailored to showcase event schedules, registrations, and key updates.
- Successfully deployed the official event website on the NIT Raipur domain.

### Resume-Based Job Finder Web Application (React, FastAPI, MySQL, Python, API)

- Engineered a dynamic full-stack web application that intelligently matches users to relevant job listings based on their uploaded resumes, improving job discovery efficiency.
- Integrated Python-based resume parsing and automated web scraping to collect and preprocess job descriptions across multiple platforms.
- Leveraged the generative AI APIs to semantically compare resumes with job descriptions for achieving high accuracy for relevance scoring and delivering personalized job recommendations.

## **MERN Stack E-COMMERCE Platform** (*MongoDB, Express, React, Node JS*)

- Designed and developed a fully responsive and scalable e-commerce web application with modern UI/UX to enhance customer experience across devices.
- Implemented essential features including secure user authentication, shopping cart management, and integrated payment gateway along with email facilitation
- Ensured robust backend architecture and RESTful API design to support seamless product transactions and real-time data updates.

## **Chrome Extension for ChatGPT** (*HTML/CSS/JavaScript*)

- Created a lightweight chrome extension to display the prompts of opened chat in a side panel and quickly navigate to a prompt by just clicking.
- Utilized the browser storage to implement the feature of star and renaming a prompt.

## **Intrusion Detection System using SVM** (*Scikit-learn, PyTorch, CIC-IDS-2017 Dataset*)

- Pre-processed and trained dataset having 28,30,743 instances with 79 features and 15 classes
- Built an IDS using SVM and optimized hyperparameters using Grid and Random Search.
- Improved classification accuracy from 91.33% to 94.31% on the test dataset.

## **TCP/IP Protocol Suite Implementation** (*C++*)

- Simulated core components of TCP/IP including TLS handshake, key exchange, and session management.
- Gained deep understanding of OSI layers and secure communication protocols.

## **CPU Process Scheduling Simulator** (*C++*)

- Designed and tested safe resource allocation with Banker's algorithm.
- Implemented various CPU scheduling strategies.

## **COURSEWORK**

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<b>Computer Science</b>	Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Networks, Computer Architecture, Compilers.
<b>Web Development</b>	Front End for web applications, Back End and Database Management Systems.
<b>AI &amp; ML</b>	Supervised/Unsupervised Learning, Model Designing & Evaluation, Feature Engineering

## **LEADERSHIP & EXTRACURRICULARS**

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- **Head Co-ordinator**, Shaurya Sports Committee, NIT Raipur.
- Part of the organizing team of **Samar**, NIT Raipur's annual sports fest.
- Captained college Basketball team.
- **Basketball Champion**, Winner in inter-college tournaments.
- Volunteered in multiple college seminars and cultural events.