

# VANI MATHUR

vani1809mathur@gmail.com | +91 7347221754 | <https://www.linkedin.com/in/vani-mathur-6a54201a8/>

## EDUCATION

### Thapar Institute of Engineering and Technology (TIET)

*B.E. in Computer Engineering*

Patiala, Punjab, India

*Oct. 2021 – May 2025*

### Stepping Stones Senior Secondary School

*Senior Secondary School*

Chandigarh, India

*2019 – 2020*

### Sacred Heart Senior Secondary School

*Secondary School*

Chandigarh, India

*2017 – 2018*

## SKILLS

**Programming Languages and Algorithms:** C, C++, Python, MySQL, R

**Cloud:** AWS, Kubernetes, Jenkins, KIND, Docker

**Fullstack:** HTML, CSS, Javascript, Vite, Node.js, Express.js, MongoDB

**Softwares:** AWS, Jenkins, VS Code, Figma, Adobe: Photoshop, Illustrator

**Soft Skills:** Leadership, Team Collaboration, Emotional Intelligence, Adaptability, Creativity, Problem-solving, Communication

## PROJECTS

### Automated Course Learning Outcome Evaluation(Ongoing)

- Building a full-stack web application for managing CLOs using Node.js, Express.js, MongoDB, and Vite. Developing a CLO Evaluating System to streamline the alignment of learning objectives with assessments. Implementing role-based access control, and enhanced reporting capabilities to improve curriculum tracking and evaluation.

### Customer Purchase Behavior Analysis Using SQL

- Developed and optimized SQL queries to analyze e-commerce transactions, extracting insights on sales trends, customer segmentation, and product performance. Utilized JOINS, CTEs, and Window Functions to generate business reports and improve query efficiency for large datasets.

### Website Deployment on AWS EKS

- Deployed an Nginx web server on AWS EKS using Kubernetes, ensuring high availability through multiple pods. Configured NodePort for external access, monitored pods and nodes via kubectl, and debugged networking issues to verify public accessibility. Also deployed it with KIND (Kubernetes in Docker).

### Automated CI/CD Pipeline for Node.js Application Using Jenkins

- Developed a CI/CD pipeline using Jenkins, Docker, and SonarQube to automate build, test, and deployment processes. Integrated GitHub for version control, containerized the application with Docker, and ensured code quality with SonarQube, improving deployment efficiency and reliability.

## POSITION OF RESPONSIBILITY

### Head Of External Affairs

*Thapar MUN Society*

- Led outreach across North India for flagship event, coordinating 20% increase in event participation by strategic coordination with colleges. Managed logistics for over 150+ students contributing to the society's competitive advantage in event management.

### Designing Head

*Thapar MUN Society*

- Created 30 social media posts, boosting event attendance by 15%. Led a team of 40 juniors in post design. Coordinated a 20% increase in event participation through North India outreach and managed logistics for 150 students, enhancing the society's competitive advantage.

### Teaching Volunteer

*Pratigya Abhiyan*

- Taught English literature to 9th-grade students from underprivileged backgrounds, contributing to their educational development through dedicated volunteer work.

## CERTIFICATES

- Cybersecurity Introduction and Cybersecurity Essentials certified by Cisco Networking Academy.
- Silver Medalist at NASA Astronomy Olympiad (NAO).

## PASSIONS

Painting, Singing, Swimming, Gyming, Psychology, Mental Health Awareness, Public Speaking