

VANSHIKA MAHAJAN

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EDUCATION

Bachelor of Technology in Computer Engineering

Thapar Institute of Engineering and Technology, Patiala

Sep 2021 - June 2025

CGPA : **8.9**

SENIOR SECONDARY SCHOOL

Dewan Public School, Meerut

Apr 2018 - Mar 2020

CGPA : **9.4**

HIGHER SECONDARY SCHOOL

Dewan Public School, Meerut

Apr 2008 - Mar 2018

CGPA : **9.6**

PROJECTS

[LINK](#)

PERSONAL PORTFOLIO | HTML, CSS, JavaScript

- Designed and developed a **sleek, modern** portfolio website highlighting projects, skills, and achievements for an engaging **user experience**.
- Integrated a functional **"Contact Me"** form, enhancing interactivity and user engagement.

E-COMMERCE WEBSITE | M.E.R.N Stack

- Designed and developed a fully functional e-commerce website for clothing using the **MERN stack**, ensuring seamless integration of **front-end and back-end** components.
- Implemented user-centric **UI/UX optimizations** to enhance the overall browsing and shopping experience, including **intuitive navigation, responsive design, and interactive features**.

ORGAN DONATION | MySQL, PL/SQL

- Designed and implemented a robust SQL database using PL/SQL, facilitating **seamless storage, retrieval, and manipulation** of critical information in the organ transplantation and procurement network.
- Preliminary tests on sample datasets indicate a potential reduction in **matching time** by approximately **83%**, which could potentially result in saving numerous lives through quicker organ transplantations.
- Ensured data integrity and security by implementing **advanced SQL features and PL/SQL constructs, such as constraints, triggers, and encryption mechanisms**.

FACE MASK DETECTION | Python, YOLO V7, Pandas, Numpy, Matplotlib

- Developed a face mask detection system using **YOLOv7 and deep learning techniques**.
- Trained the model on a diverse dataset of images and converted annotations **to YOLO format for efficient detection**.
- Achieved **high accuracy in real-time detection** of face masks, contributing to public health initiatives.

CERTIFICATION

[LINK](#)

- Software Engineering Job Simulation of Goldman Sachs via Forge
- Academy Machine Learning Foundations via AWS
- Thapar summer school on Machine Learning & Deep Learning
- Simplified approach to DBMS via Udemy

SKILL SET

- | | |
|-------------------------------------|--|
| • Programming languages | C, C++, Python |
| • Database management system | SQL, PL/SQL |
| • Web development | HTML, CSS, JavaScript |
| • Machine learning | Regression, Classification, Clustering |
| • Soft skills | Communication, Analytical, Problem solving, Teamwork |
| • Languages | English and Hindi Full professional proficiency |