# VISHAL YADAV

Mumbai, Maharashtra

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## EDUCATION

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| **Bachelor of Engineering (B.E)- Rajiv Gandhi Institute of Technology** | **2019–2023** |
| Computer Engineering - **CGPA** - **9.16** | Mumbai, India |
| **HSC - Sathaye College (Vile Parle)** | **2017–2019** |
| Science stream - **Percentage** - **72%** - **MHT CET** - **97.47 Percentile** | Mumbai, India |

## EXPERIENCE

**System Engineer - TCS | Nov 2023–Present, Mumbai**

- Responsible for developing and maintaining a dynamic web application using **Java, JSP, and SQL,** enabling seamless database interaction and enhancing user experience.
- Developed and executed **custom utility** tools in Java to **automate repetitive tasks**, improving **operational efficiency by 50%** and reducing manual effort.
- **Collaborated with cross-functional** teams to identify inefficiencies and design scalable workflow solutions.
- Resolved application issues through **root cause analysis**, increasing **reliability by 30%** and **user satisfaction by 25%**.
- **Optimized existing utilities** and **improved latency by 40-50%** for better performance, **scalability**, and **maintainability.**

## PROJECTS

**Anomaly Detection Dashboard**

**Tech Stack**: **MongoDB || ExpressJS || ReactJS || NodeJS**

**Description:** The Anomaly Detection Dashboard is a comprehensive web-based tool designed to identify and visualize irregularities or anomalies in datasets. Built using the MERN stack, this project leverages modern web technologies to provide real-time monitoring and insights.

**Key Contributions:**

- Stores and manages large datasets with **MongoDB**, supporting real-time and historical data analysis.
- Built with **Express.js** and **Node.js**, offering secure and efficient RESTful APIs for data operations.
- **React.js**-based dynamic dashboard with interactive charts and visualizations for anomaly insights.
- Provides instant **anomaly alerts** and trend analysis, supporting timely and informed **decision-making**.

**Recognition of American Sign Language using Hand Gesture | [View](#):**

**Tech Stack**: **Python || Machine Learning || Mediapipe || Flask**

**Description:** Developed a **machine learning application** for deaf and disabled individuals to **communicate via hand gestures**, using **Mediapipe for model training** and **Python-Flask** for the interface.

**Key Contributions:**

- Built a **gesture recognition system** for interpreting American Sign Language (ASL) using **Mediapipe and ML models.**
- Implemented a **Flask-based interface** to improve system accessibility for users with disabilities.

## SKILLS

- **Programming Languages:** C, C++, Core Java, Python.
- **Web Development:** Servlets, HTML5, CSS3, Javascript, React JS, NodeJS, Express JS.
- **Database:** MySQL, MsSQL, MongoDB.
- **Libraries and Frameworks:** C++ STL, Bootstrap, Material UI, Sass, Tailwind CSS, Flask.
- **Other Development Skills:** JSP, Linux, Machine Learning, GitHub, OOP Concepts, DSA.
- **Soft Skills:** Problem-Solving, Communication, Dependability.

| ACHIEVEMENTS | CERTIFICATION AND TECHNICAL COURSES |
|---|---|
| <ul><li>Recognized as '**Employee of the Month**' for outstanding performance, dedication, and contributions to project success.</li><li>**Kanpur-Mathura ICPC Regionals Finalist 2022** amongst 4000+ teams all over India at the Kanpur-Mathura Site.</li><li>Codeforces **Specialist' (1449)** with **1000+** competitive programming problems solved.</li><li>**5 stars** in HackerRank Problem Solving.</li><li>**4 stars** in CodeChef (with the highest rating of 1954).</li></ul> | <ul><li>**Object-Oriented Data Structure** in C++ (Coursera).</li><li>Introduction to **Web Development** (Coursera).</li><li>**Database Management System.**</li><li>**Data Structures and Algorithms.**</li></ul>**CODING PROFILES**<ul><li>**Codeforces: vishal1809**</li><li>**Codechef: vishal1809**</li><li>**Hackerrank: vy34365**</li></ul> |