

DEVESH SINGH

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LinkedIn

Github

Portfolio

Education

Vellore Institute Of Technology

Bachelor of Technology in Computer Science, CGPA: 8.51/10

2022 – 2026

Amravati, Andhra Pradesh

Kendriya Vidyalaya No.3

12th Grade, 76.6%

2022

Vadodara, Gujarat

Experience

L&T Energy and Power

IT Intern

June 2023 – July 2023

Remote / Vadodara

- Developed a robust computer vision application using OpenCV to automate defect detection in energy infrastructure manufacturing, reducing manual inspection time by over 30%.
- Built real-time object detection models achieving over 85% accuracy using custom image datasets and traditional feature extraction.
- Integrated image classification workflows with pre- and post-processing pipelines, enabling smoother visual inspection.
- Collaborated with cross-functional teams to integrate the model into production systems and align it with industry-grade quality checks.
- Prepared detailed technical documentation, created user manuals, and conducted knowledge transfer sessions for internal staff.

Projects

Airline Reservation System | *Java Swing, MySQL*

- Designed a fully functional airline booking system with user login, flight selection, real-time booking, and cancellation features.
- Implemented a clean, event-driven GUI using Java Swing, integrating MySQL for persistent flight, passenger, and ticket records.
- Enabled secure authentication, user input validation, and efficient database queries for fast performance.
- Added functionality for price calculations, available seat tracking, and detailed booking history for each user.

Gesture-Based Presentation Controller | *OpenCV, MediaPipe, Python, PyAutoGUI*

- Built a real-time hand gesture recognition tool that allows users to control presentation slides through intuitive hand gestures.
- Used MediaPipe to extract hand landmarks and OpenCV for gesture processing and visualization.
- Mapped gestures to keyboard events using PyAutoGUI for smooth slide transitions and multimedia control.
- Achieved high responsiveness with latency under 0.5s, optimized for resource-limited systems.
- Demonstrated the system in academic and technical events, showcasing accessibility for users with limited physical movement.

Flight Delay Analysis Dashboard | *Power BI*

- Developed an interactive dashboard analyzing 10,000+ flights.
- Implemented time intelligence measures (DAX) to compare on

Stock Market Prediction | *Python, yFinance,*

- Created for analyzing historical stock data from Yahoo Finance using the yFinance API and using tickers.
- Integrated data wrangling in Python and automated visual generation to display trends, volume, and moving averages.
- Used data mining techniques for stock prediction.
- It is a user-friendly suitable for investors and analysts.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, R

Tools: VS Code, IntelliJ, Google Colab, Power BI

Technologies: OpenCV, GitHub, UI Design, Windows

Software Engineering: Software Systems, Compilers, Embedded Development

Coding Profiles

Leetcode

GeeksForGeeks

Position of Responsibility

CodeChef Club - Vellore Institute Of Technology, AP

Technical Team Member

- Led development and maintenance of coding challenges and contests to ensure smooth participant experience.
- Collaborated with team members to design problem statements, test cases, and solutions.