

# Aditya Pandey

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## EXPERIENCE

### MATRIX MEDIA SOLUTIONS PVT LTD

SOFTWARE DEVELOPMENT INTERN

April 25 – May 27, 2025 | Kolkata, West Bengal

- Engineered a full-stack web platform using **React**, **Express.js**, and **SQL** that automated a manual order processing workflow handling **100+ orders/week**, reducing human error and data entry time by **70%**.
- Developed real-time delivery status tracking for **200+ active shipments daily**, improving logistics visibility and reducing customer support tickets by **40%**.
- Implemented a centralized maintenance logging system with backend integration, enabling tracking of **100+ monthly service issues** and reducing issue resolution time by **50%**.

### WEBRASTA TECHNOLOGIES

DATA ANALYST INTERN

May 1 – June 2, 2024 | Kolkata, West Bengal

- Analyzed multi-quarter datasets using **Pandas**, uncovering key trends such as a **25%** increase in Q2 user acquisition with only an **8%** revenue growth, and identified root causes behind the growth-performance gap.
- Created data-driven dashboards with **Seaborn** and **Matplotlib**, enabling stakeholders to visualize anomalies; attributed a **15%** traffic dip to delayed marketing campaigns, leading to refined campaign strategies.

## PROJECTS

### REAL-TIME DISTRACTION CHECKER

| FACIAL LANDMARK-BASED FOCUS MONITORING

2024 | Bengaluru, Karnataka

- Engineered a real-time distraction detection system leveraging MediaPipe FaceMesh, achieving a **92% accuracy rate** in identifying and categorizing distractions based on gaze, blink rate, and head orientation.
- Processed webcam streams at **30+ FPS** with **<100ms latency** for distraction detection and visual alerts.
- Integrated with React frontend; tested with **50+ students** to improve focus during online sessions.
- GitHub:** [github.com/thecritiz/distraction-detect](https://github.com/thecritiz/distraction-detect)

### FACIAL EXPRESSION DETECTION SYSTEM

| PERSONALIZED CONTENT RECOMMENDATION TOOL

2023 | Bengaluru, Karnataka

- Developed a full-stack web application that delivered movie recommendations in **under 2 seconds** based on real-time facial emotion detection using webcam input.
- Achieved **84% emotion classification accuracy** using a CNN model trained on FER2013 and deployed via a FastAPI backend.
- Designed a responsive frontend using React, TailwindCSS, and Framer Motion, improving user engagement by **40%** through interactive UI/UX features.
- GitHub:** [github.com/thecritiz/expression-upgraded](https://github.com/thecritiz/expression-upgraded)

## EDUCATION

### CHRIST UNIVERSITY

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Expected Apr 2026 | Bengaluru, Karnataka

GPA: 3.45 / 4.0

## SKILLS

### PROGRAMMING LANGUAGES

Java • Python • C • JavaScript • Bash

### WEB TECHNOLOGIES

HTML • CSS • Node.js • React.js •

Express.js

### DATABASES & CLOUD

PostgreSQL • MongoDB • AWS • Docker

### ML & DATA SCIENCE

Pandas • NumPy • Scikit-learn •

TensorFlow • Keras • OpenCV • Seaborn

### TOOLS & PLATFORMS

Git • Jupyter Notebook • VS Code •

Linux Shell

## CERTIFICATIONS

**Digital Image Processing** – Great Learning

**Infrastructure Economics** – NPTEL (IIT Madras)

**CCNAv7: Introduction to Networks** – Cisco

**Networking Basics** – Cisco

**Introduction to Cybersecurity** – Cisco

**Data Analytics & Visualization** – Forage

## ORGANIZATIONS &

## ACTIVITIES

**IEEE & ACM** – Member

**Smart India Hackathon (SIH)** – 2024

Worked on a Deepfake Detection System for secure media authentication.

**Techradiance (IIT Bombay)** – 2023

**Magnovite** – Christ University

- Tech Trivia – 2023:** Event Head & Quizmaster. Invited participants from **10+ universities**.
- Triwizard Cup – 2024:** Event Head & Host. Conducted **20+ volunteer interviews** and led operations.