

# DEBSHANKAR DEY

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## Education

**Heritage Institute of Technology, Kolkata**

*B.Tech in Computer Science and Engineering*

**2021 - 2025**

*9.71/10 CGPA*

**Nava Nalanda High School**

*Higher Secondary*

**2018 - 2020**

*93.4 percentage*

**Nava Nalanda High School**

*Secondary*

**2009 - 2018**

*94.3 percentage*

## Work Experience

**COZEVA**

**Aug 2025 - Present**

*SDE 1 (Full-Stack MERN Developer)*

*On-site*

- Engineered solutions to address complex problems within the **U.S. health-tech sector**.
- Actively involved in projects encompassing multiple domains mainly on **health-care interoperability, agentic ai**.
- Solely led the end-to-end development of a **data-intensive** platform, leveraging **React, Node.js, MongoDB, and MySQL** for full-stack functionality.
- **Optimized** complex **SQL/NoSQL** queries for this system, ensuring efficient **data ingestion** and processing of **high-volume datasets**.

## Projects

**Real Life Violence Detection.**

[Source Code](#)

- Developed a **real-life violence detection model** using custom **CNN** paired with **BiDirectional LSTM** architectures.
- Improved the accuracy by replacing **LSTM** with **Transformer**
- Leveraged Python's **Mediapipe** library for extracting human pose data.
- Created a balanced dataset of 50,000 pose landmark data, comprising of 25000 violence and 25000 non-violence pose landmarks, to train and validate the model's performance.
- Reached a test accuracy of **98.75 percent** for **LSTM** and **99.15 percent** for **Transformer** on the test dataset.

**Travel Booking Website.**

[Source Code](#)

- Deployed a **fullstack Travel Booking Website** using **Express framework** for flight and hotel booking
- Incorporated **Mongo Db** to store the user registration and transaction details
- Integrated **Stripe** gateway for safe and secure payment
- Applied **JWT** for creating and authenticating user sessions

**AI-powered Interview Trainer.**

[Source Code](#)

- Designed an **ai-powered** solution with **gemini ai** providing multi-domain **interview guidance**
- Engineered **socket** based solution and **three js** based **avatar-animation** to house the need for a realtime interview environment
- Formulated **deep-learning** and **nlp** based solutions for **facial and vocal** analysis
- Employed **gemini ai** for **interview performance** evaluation and **areas of improvement**

## Skills

**Computer Languages:** C,C++,Python,Node JS

**Frontend:** HTML, Bootstrap, JS, CSS, React

**Databases:** MySQL, Mongo DB

**Developer Tools:** Postman, VS Code

**Problem Solving:** Data Structure, Algorithms

**Versioning tools:** git and github ,svn

**Languages Known:** English, Hindi, Bengali

## Achievements

- Awarded the **best paper award** for the paper **Violens (Real Time violence detection system)** in the **International Conference on Artificial Intelligence and Sustainable Computing 2025**.
- Came within top 10 in **code-Frenzy** held at Heritage Institute of Technology, Kolkata.