

# Anuj Bhandari

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GitHub Profile

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## EDUCATION

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### • Bachelor of Computer Science Hons (Data Science)

IIMS college, Dhobidhara

2021-25

CGPA: 3.6

## PERSONAL PROJECTS

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### • Receipt Reader

*Automated digitization and structuring of receipt data.*

- Developed a **receipt reader** leveraging **Tesseract OCR** with **OpenCV preprocessing** to extract text from receipt images.
- Integrated **Gemini API** to convert extracted text into a **structured JSON format** for downstream processing.
- Enabled **automated financial data handling** by combining **OCR** and **API-driven structuring**.
- Built an interactive **dashboard** to visualize and manage extracted receipt data, enhancing usability and accessibility.

### • Foof-del | Full-Stack Food Delivery Platform (MERN)

*Architected and deployed a containerized MERN stack food delivery app with separate customer and admin interfaces.*

- Built a full-stack MERN application with separate React UIs for customers and admins, powered by a **Node.js/Express API**.
- Orchestrated a **multi-container deployment** using **Docker Compose**, with **Nginx reverse proxy** managing traffic between frontend, admin panel, and backend.
- Implemented **secure JWT authentication** for protected routes, user sessions, and cart management.
- Designed a RESTful API with Mongoose supporting CRUD operations for products, users, and orders.

### • Real-time Chat Application

*Full-stack web application for instant messaging.*

- Developed a real-time chat platform using **FastAPI WebSockets** for seamless bi-directional communication.
- Implemented **JWT-based authentication** with secure login and registration functionality.
- Integrated **PostgreSQL** for message storage and retrieval, enabling users to access chat history.
- Built an interactive frontend using **React** and **Redux**, ensuring real-time UI updates and state management.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Java, JavaScript, TypeScript, Python, R, LaTeX

**Frontend:** React, Redux, Tailwind CSS, GSAP

**Backend:** Express.js, Flask, FastAPI

**Libraries & ML Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib

**Databases:** MongoDB, MySQL, PostgreSQL

**DevOps & Cloud:** AWS, Docker, Git, Postman

**Big Data Tools:** Apache Spark

## AWARDS AND ACHIEVEMENTS

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### • 1st Runner-Up – Turboline x IIMS Hackathon

June 2025

- Developed a real-time posture analysis tool for powerlifting using Python, OpenCV, and MediaPipe, with pose estimation and feedback integration via a Streamlit dashboard.
- Awarded 1st Runner-Up among teams from Asia for delivering AI-driven solutions in sports technology, judged by experts from the NFL, NBA, and Fanatics.

### • Winner – IIMS Hackathon Deep Learning Codefest (Best Model)

June 2024

- Awarded “Best Model” for designing a U-Net-based semantic segmentation solution for urban street scene understanding.
- Implemented in PyTorch with custom preprocessing, mask transformation, and prediction visualization.