

# ANAND RAJ

☎ +91 9508290513    ✉ anandraj001119@gmail.com    🔗 linkedin.com/in/Anand-Raj  
🐙 github.com/anandpandey7    </> LeetCode    🧑🏻 GeeksForGeeks

## Profile

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- Software Developer skilled in full-stack web development (React, Express, FastAPI), backend engineering, databases, and modern AI/ML systems. Strong foundation in C++, Python, DSA, and scalable system design. Passionate about building production-quality applications, intelligent systems, and developer tools.

## Education

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**Rashtrakavi Ramdhari Singh Dinkar College of Engineering, Begusarai**  
*B.Tech in Computer Science and Engineering*

2022 – 2026  
CGPA: 8.30 / 10

## Technical Skills

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- **Languages:** C, C++, Python, JavaScript, HTML, CSS
- **Frontend:** React.js, Recoil, TailwindCSS
- **Backend:** Express.js, Node.js, FastAPI, REST APIs
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB
- **AI/ML:** PyTorch, TensorFlow, Scikit-Learn, LangChain, LangGraph, NLP Basics
- **Developer Tools:** Git, GitHub, Linux, VS Code, Postman

## Projects

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### Task Manager App (React + Express + MongoDB)

- Built a MERN-based Task Manager with authentication, CRUD tasks, and persistent backend storage.
- Implemented Express.js APIs, MongoDB schema design, and a clean component-based React UI.

### LangChain + LangGraph AI Agent

- Built an intelligent agent with short-term memory, long-term vector memory (ChromaDB), and tool-based reasoning (web search).
- Implemented branching logic, tools condition routing, and persistent memory graphs.

### AI Autoencoder & GAN Models (TensorFlow)

- Implemented convolutional Autoencoders and GANs on MNIST using TensorFlow/Keras.
- Learned feature compression, image reconstruction, adversarial training, and model stability techniques.

### Tic Tac Toe AI (Python)

- Developed an unbeatable AI using the Minimax algorithm with heuristic optimizations.

## Achievements

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- Solved 300+ DSA problems on LeetCode, GFG, and Codeforces.
- Completed IoT Internship at InternBee — built Smart Garbage Monitoring System using C++.
- Participated in GFG 160 Challenge with daily DSA problem solving.

## Relevant Coursework

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- Data Structures and Algorithms
- Operating Systems
- Computer Networks
- Database Management Systems
- Artificial Intelligence
- Machine Learning
- Web Development
- Compiler Design