Gourav Kumar Ojha

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Education

Rungta College of Engineering and Technology — Bhilai, CG
Bachelor of Technology in Computer Science in AI — *Aug. 2023 – Present*

Sunrise Dwarka Academy — Deoghar, JH
Higher Secondary — *Jul 2021 – Jun 2023*

St. Xavier's High School — Deoghar, JH
Secondary — *Mar 2013 – Jul 2021*

Experience

Software Developer Intern — Oct 2024 – Nov 2024
Hewlett Packard Enterprise — *Remote*

- Developed a comprehensive proposal for implementing RESTful web services that outlined strategies to reduce API response times by 30% and cut integration costs by 20% , leading to faster deployment timelines.
- Engineered 4+ RESTful web services and integrated secure data upload functionality that improved data processing speeds by 40% and reduced operational errors by 25%.
- Created and executed over 50 unit tests, achieving 95% code coverage and decreasing production issues by 35% during the first quarter after deployment.

Open Source Contributor — Oct 2024 – Nov 2024
GirlScript Summer of Code — *Remote*

- Contributed to open-source projects under the GSSoC 2024 program.
- Partnered with a cross-functional team of 8+ developers to refine project features.

Student Ambassador — Oct 2024 – Nov 2024
LetsUpgrade — *Remote*

- Acted as a company representative at 5 educational events, contributing to a 20% growth in new client engagements and a 25% increase in participant enrollment in training programs.
- Spearheaded outreach initiatives that drove a 40% uplift in community interactions and a 30% rise in online engagement rates, significantly expanding the organization's local presence.
- Organized multiple community events, collaborating with student groups and local organizations to enhance campus-community relationships
- Led a team of 15 volunteers in the execution of LetsUpgrade events that increased student engagement

Projects

Matdata Mitra | *React, Python, Node.js, Express.js, Ethereum, OpenCV, IPFS, MongoDB, MySQL.*

- It is a comprehensive, end-to-end platform designed to revolutionize the voting process. It offers solutions ranging from the creation of blockchain-based voter ID cards to advanced facial recognition and a decentralized voting system to ensure transparency.
- Blockchain-based Voter Card Creation: Created and stored secure, immutable voter identities on the blockchain.
- Facial Recognition: An integrated face detection and recognition system to verify only registered voters.
- Built a decentralized voting system on the Ethereum blockchain to ensure secure, transparent, and tamper-proof online voting.

RogiRadar | *React, Python, Flask, Scikit-learn, Pandas, REST API, HTML/CSS, JavaScript, MongoDB.*

- A comprehensive, end-to-end, ML-powered web application that analyzes 18 common symptoms to predict potential diseases and guide users toward timely medical consultation.
- Symptom-Based Prediction Engine: Trained Decision Tree and Random Forest models on real-world medical datasets, achieving 85 % accuracy on a held-out test set.
- Real-Time RESTful API: Flask-based backend delivers ranked disease predictions in under 2 seconds for a seamless user experience.

- Scalable, Modular Architecture: Python service layer and MongoDB for storing user sessions, easily extendable to include new symptoms, languages, or regional disease profiles.
- Responsible Use Disclaimer: Built-in caution message to reinforce that predictions are a preliminary guide—not a substitute for professional medical advice.

RungtAI – Your Campus Companion | *Gemini API, Next.js, TypeScript, Tailwind CSS.*

- Designed an interactive AI agent to provide virtual tours of the campus.
- Implemented a 24/7 chatbot to answer questions related to campus life, academic deadlines, and services.
- Developed features to display upcoming academic, career, and social events, along with virtual tours of campus facilities.

GSRA BANKS | *HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, JWT.*

- Developed a simulated online banking portal featuring functionalities such as fund transfers, deposits, profile management, real-time balance inquiry, and transaction history.
- Developed user registration and login modules to ensure secure user authentication and authorization.
- Implemented account management features that allow users to create, modify, and delete accounts.
- Balance Inquiry: View real-time account balances
- Enabled real-time balance inquiries and generation of account statements for specific periods.

Technical Skills

Programming Languages: Python, C/C++, Java.
Computer Vision and Machine Learning: OpenCV, YOLO, PyTorch, TensorFlow, supervised learning, Scikit-learn.
Web Development: HTML, CSS, JavaScript , React, Node.js, Express.js, Next.js, TypeScript, RESTful Web Services and APIs
Blockchain and Smart Contract: Blockchain, Ethereum, Web3.js, Solidity.
Data Structures and Algorithms: Proficient in Data Structures and Algorithms using C++
Database Technologies: MySQL, MongoDB, IPFS, Firebase
Developer Tools and Platforms: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ.

Soft Skills

- Leadership
- Communication
- Teamwork
- Problem-solving
- Adaptability
- Time Management

Certifications

- Azure Fundamentals – Microsoft – Oct 2023
- Postman API Fundamentals – Postman – Nov 2024
- Data Structures and Algorithms – DevTown – Oct 2024
- Open Source Contributor – GirlScript Summer of Code – Nov 2024
- AI Builders lab - Hack2Skill – Nov2024
- Full-Stack Development – DevTown – Aug 2024
- Google Cloud Skills Boost & APIs – Google – Dec 2024
- Data Science - Artificial intelligence & Machine learning – Coding Spoon – May2025
- AI/ML virtual inter –AICTE / GDG – June 2025