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GOURANG AGARWAL
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283, Ramganj Bazar, Jaipur, 302003

SKILLS

- **Programming Languages:** Python, C++, Java
- **Cloud Computing:** AWS (Lambda, EC2, S3, EBS, SageMaker, RDS, IAM,VPC), Oracle Cloud, Apex
- **Machine Learning & AI:** Scikit-learn, TensorFlow, NLP, LLMs, Deep Learning, RAG
- **Databases:** MySQL, MongoDB, Database Management System (DBMS)
- **Web Technologies:** HTML, CSS
- **IoT & Systems:** Internet of Things (IoT), System Software, Data Structures and Algorithms
- **Tools:** MATLAB, PIVLab
- **Soft Skills:** Strong communication and documentation skills

EDUCATION

Vellore Institute Of Technology, Bhopal
Bachelor of Technology
Computer Science and Engineering | 2022 - Present

Central Academy, Jaipur
12th Grade | 2022 | 83.20%
Board : CBSE

10th Grade | 2020 | 83.60%
Board : CBSE

RESEARCH PRESENTATION

MIT Undergraduate Research Technology Conference (URTC) 2025

- Presented poster on "Physics-Informed Neural Networks for Parameter Estimation in Mass Reconstruction of Strong Gravitational Lensing", achieving < 0.1 MAE in lens parameter estimation with improved physical consistency and efficiency.

CERTIFICATIONS

- Oracle Cloud Infrastructure Certified Data Science Professional - Oracle, 2025
- Oracle Cloud Infrastructure Certified Generative AI Professional - Oracle, 2025
- Adobe India Hackathon - Adobe, August 2025
- Advanced Learning Algorithms – Coursera, 2024
- Supervised Machine Learning: Regression and Classification – Coursera, 2024
- Training Certificate – IIT-BHU,(June - July) 2024
- Oracle Cloud Infrastructure Foundations
- Oracle Apex Developer – Oracle, 2023
- The Bits and Bytes of Computer Networking – Coursera, 2023
- AWS Cloud Quest: Cloud Practitioner
- AWS Educate: Getting Started with Networking

LINKS

- :- https://www.linkedin.com/in/gourang4/
- :- https://github.com/Gourang14
- :- https://codeforces.com/profile/Gourang1
- :- https://leetcode.com/gourang-1/

PROFESSIONAL EXPERIENCE

INDIAN SPACE RESEARCH ORGANIZATION - IIT (BHU), India
Research Intern | June 2024 - July 2024

- Contributed to the ISRO-assigned project "Improving Accuracy of Space-Time Image Velocimetry (STIV) with Deep Learning" using CNN, achieving an accuracy of 89.90%.
- Constructed a high-performance SQL-based IoT database handling records, reducing query execution time by 50% and improving data retrieval efficiency for real-time monitoring.
- Designed an interactive dashboard with HTML, CSS and Chart.js to visualize over 20 real-time data streams simultaneously for monitoring at ISRO stations.

AU SMALL FINANCE BANK - Jaipur, India
Summer Intern | June 2023 - July 2023

- Optimized cloud computing costs by 25% by leveraging AWS reserved instances and optimizing instance selection.
- Deployed and secured Oracle Cloud Server, increasing system scalability by 40% and reducing latency by 20% through optimized workload management.

ACCOMPLISHMENTS

FLIPKART
Flipkart Grid 7.0 | National Semi-Finalist | July 2025

- Achieved National Semi-Finalist status by ranking in the top 2% of 1.6+ lakh participants nationwide, advancing through multiple rounds of competitive coding and business case analysis.

OPEN SOURCE CONTRIBUTOR
Hacktoberfest | Final Level | October 2024

- Earned Level 4 Contributor Badge during Hacktoberfest by submitting 4+ pull requests across GitHub repositories, enhancing documentation clarity and implementing algorithm optimizations in Python, thus improving code efficiency.

GOVERNMENT OF INDIA
Space India Hackathon | Finalist | January 2024

- Engineered an ML model predicting LULC-GDP correlation with 96% accuracy, reducing manual analysis time by 40% using the Markov chain model and night-time light data.
- Processed and analyzed satellite images using QGIS, improving spatial accuracy by 30% and enhancing model interpretability for land use classification.

TECHNICAL PROJECTS

- **WalAI | AI Powered Grocery Platform :** Developed WalAI an AI grocery platform using RAG and NLP that cut manual shopping effort by 85% and managed inventory with 94% accuracy.
- **Persona Centric Indexer (PCI) :** Built a document intelligence system, extracting structured outlines (H1-H3) from multilingual PDFs at a rate of < 10 seconds per 50 pages and using a persona-driven engine to semantically rank content for specific user tasks.
- **Taskify | AI Driven Task Allocation Model :** Devised an AI-driven task allocation model that reduced manual assignment errors by 30% and improved task prioritization by 45%.
- **Credit Scoring Model :** Architected a machine learning model to evaluate individual creditworthiness using historical loan and financial data. Increased risk assessment accuracy by 35%, aiding in better loan decisions.