

YUGAL SAINI

yugalsaini2002@gmail.com | +91-7851887249 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Education

Bachelor of Technology in Computer Science

Nov 2021 – May 2025

Rajasthan Technical University, Kota, Rajasthan

CGPA: 8.87

Relevant Coursework: Data Structures, Algorithms, Cloud Computing, Database Management, Operating Systems

Experience

Full-Stack Developer Intern

May 2024 – June 2024

Dooper Health Technology Pvt Ltd, Kota, Rajasthan

- Developed and deployed scalable MERN stack web applications with real-time notifications, improving user engagement by **40%**.
- Optimized MongoDB queries, reducing response time by **25%**.
- Collaborated in Agile teams through daily stand-ups, code reviews, and UI/UX enhancements.

NLP Summer Trainee

Jun 2024 – Jul 2024

Oil and Natural Gas Corporation (ONGC), Dehradun, Uttarakhand

- Built an NLP-based document summarization tool using Python, SpaCy, and Transformer models, reducing manual summarization time by **50%**.
- Integrated the Fitz library for PDF parsing, enhancing data retrieval efficiency.

Projects

Artificial Magnetic Force Algorithm (AMFA)

(GitHub)

- Developed a novel nature-inspired optimization algorithm (AMFA) using Python, achieving a computational complexity of $O(N \log N)$, 2.4x faster than traditional methods like GSA (1.2s vs. 0.5s per iteration).
- Evaluated AMFA on 20 benchmark functions, outperforming 5 established algorithms on unimodal tasks (e.g., Sphere fitness -0.01) and documented findings in LaTeX using the IEEEtran template for publication.

Cloud Framework for Student Activity Center

(GitHub)

- Developing a SaaS platform using React, Bun js, and AWS to manage student roles, events, and resources.
- Implementing role based access control for **10+** user categories.

Facial Recognition Attendance System

(GitHub)

- Developed a cloud-based attendance system using AWS Rekognition, Lambda, and DynamoDB for **500+** students.
- Reduced manual effort by **70%** and achieved **95%** accuracy in real-time face detection.

Certifications & Awards

- AWS Cloud Training – LinuxWorld Informatics
- AWS Cloud Technical Essentials – EdX
- Python Basics for Data Science – EdX
- AWS Cloud with AI – LinuxWorld Informatics
- English for Personal and Professional Development – IIIT Kota
- 1st Rank, SQL Quiz Competition – GFG Student Chapter RTU Kota

Technical Skills

- **Programming:** Java, JavaScript (Node.js, React.js), Python
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, DynamoDB), Docker
- **Databases:** DynamoDB, MongoDB, SQL, Redis
- **Web Development:** MERN Stack, REST APIs, HTML, CSS
- **Tools:** Linux (Ubuntu), Git, Agile/Scrum, CI/CD
- **Concepts:** OOPs, Distributed Systems, SDLC

Key Strengths

- **Problem-Solving:** Proficient in Data Structures and Algorithms (300+ problems solved on LeetCode, GeeksforGeeks and Hackerrank).
- **Agile Collaboration:** Experienced in sprint planning, Slack, and CI/CD.
- **Quick Learner:** Built 5+ projects across cloud, web development, and NLP within one year.