

Rishi Agarwal

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EDUCATION

- **Bennett University (The Times of India Group)** *Greater Noida, UP, India*
B. Tech in Computer Science and Engineering with Specialization in Cloud Computing *Sep. 2022 – Present*

SKILLS

- **Programming Languages:** Java, C++, Python, MATLAB, SQL
- **Cloud & DevOps:** AWS Cloud, Google Cloud, Docker, Kubernetes, CI/CD (Jenkins)
- **Tools:** Linux, Git & GitHub
- **Frameworks:** Spring Boot, Django, Flutter
- **Other Skills:** Data Structures & Algorithms (DSA), Machine Learning

PROJECTS

- **Self-Hosted Private Cloud Server** *Oct. 2024 – Nov. 2024*
Linux, Docker, Portmaster, DDNS, Nextcloud, Vaultwarden
 - Designed and implemented a private NAS and backup solution using a spare laptop, Linux, and Docker.
 - Configured dynamic DNS (Cloudflare DDNS tunnel), static IP, and a strong firewall (Portmaster) for secure remote access and server protection.
 - Hosted services including Nextcloud and Vaultwarden for personal data management.
 - Gained hands-on experience in Linux system administration, Docker containerization, networking, and hosting scalable services.
- **Aegis Alert: Women's Safety SOS App** *Sep. 2024*
Flutter, Firebase, Custom AI Models, TensorFlow Lite
 - Developed a real-time SOS mobile app featuring **gesture-based** (shake) and voice-activated distress detection.
 - Implemented real-time location tracking integrated with emergency services for automatic alerts.
 - Integrated TensorFlow Lite models, achieving **95%** distress detection accuracy, and real-time cloud services for alerts.
- **URL Shortener: Spring Boot Backend Application** *Feb. 2025*
Java, Spring Boot, Spring Data JPA, MySQL, Apache Commons Lang
 - Designed and implemented a RESTful URL shortening service using **Spring Boot**.
 - Developed robust backend logic with **Spring Data JPA** and MySQL for persistent URL mapping.
 - Utilized **Apache Commons Lang** to generate secure, random alphanumeric strings.
 - Containerized the database using **Docker** and validated endpoints with **Postman**.

CERTIFICATIONS

- Global AWS Certified Cloud Practitioner [\[Verify Credential\]](#)
- View all Certifications and Courses [\[Certifications Portfolio\]](#)

PUBLICATIONS

- N. Kumar, **R. Agarwal**, P. Gupta, P. Mishra, Y. Kumar, and M. Y. Ram Sai [\[paper\]](#)
Improved Ensemble Learning-based VM Migration Prediction Technique.
2025 2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICTN), Ghaziabad, India, 2025, pp. 581-586. DOI: 10.1109/CICTN64563.2025.10932341

ACHIEVEMENTS AND COMMUNITY WORK

- Ranked **#28** out of **400+** teams in the SmartBU Hackathon; selected for the prestigious Smart India Hackathon 2024 (**SIH'24**).
- Led Google Cloud Study Jams, training 150+ students, improving cloud adoption by 60%.