# Rishi Agarwal

📞 +91 8276842483 | ✉ rishiagarwal744@gmail.com | 𝗶𝗻 linkedin.com/in/rishi-agarwal7 | ⌂ github.com/therishiagarwal |
⌂ therishiagarwal.github.io

## 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.
- **Trendmia: Collaborative Project Sharing Platform (Team Project)** *Mar. 2024 – Apr. 2024*
  *Django, Supabase, HTML, CSS, JavaScript*
  - Developed a platform using **Django** and **Supabase** for authentication and database management.
  - Wrote full-stack code for seamless integration, allowing users to create posts and collaborate.
  - Includes a **trending section** powered by AI for **project recommendations**.
  - Led the development team and coordinated with team members for AI/ML integration.

## PUBLICATIONS

- Kumar, N., **Agarwal, R.**, Gupta, P., Mishra, P., Kumar, Y., & Ram Sai, M. Y.
  **Ensemble learning-based VM migration prediction based on CPU usage**.
  In *Proceedings of the IEEE 2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICN), 2024.*

## 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

- **Languages**: C++, Java, Python, MATLAB, SQL
- **Cloud/DevOps**: AWS Cloud, Google Cloud, Docker, Kubernetes
- **Tools**: Linux, Git & GitHub
- **Frameworks**: Spring Boot, Django, Flutter
- **Other**: Machine Learning, Data Structures and Algorithms

## CERTIFICATIONS

- Global AWS Certified Cloud Practitioner [View Credential]
- View all Certifications and Courses [Certifications Portfolio]

## ACHIEVEMENTS AND COMMUNITY WORK

- Ranked **#28** out of **400+ teams** in the SmartBU Hackathon; selected to advance to the Smart India Hackathon 2024 **(SIH'24)**.
- Spearheaded GCCP and Google Cloud Study Jams for **150+** participants, showcasing expertise in orchestrating large-scale events and fostering collaboration among aspiring cloud professionals.