

# Ria R Kulkarni

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github.com/aluminates

## Education

- PES University**, B. Tech in Computer Science and Engineering Dec 2021 – May 2025
- CGPA: 8.43/10 | 5x Recipient of the Distinction Award Scholarship | Awarded Prof. CNR Rao Scholarship
- BASE PU College**, Grade XI - XII June 2019 – Aug 2021
- Percentage: 100% (II PUC)
- Venus International School**, Grade I - X June 2009 – Mar 2019
- Percentage: 97.2% (ICSE)

## Experience

- Teaching Assistant**, PES University Jul 2024 – Present
- Assisted professors in teaching Software Engineering and Web Technologies
  - Created educational materials, including slide decks, problem statements and notes, while also evaluating assignments and projects
- Intern**, ALTEN Calsoft Labs (ACL Digital) – Bangalore May 2024 – Jul 2024
- Led a Generative AI project from inception to deployment, overseeing timelines and deliverables, leading to a 30% reduction in manual customer service tasks
  - Applied cutting-edge technologies like RAG, open-source LLMs and AWS EC2, resulting in seamless deployment and cloud migration
- Research Intern**, Centre for Data Science & Applied Machine Learning Jun 2023 – Aug 2023
- Conducted extensive research and applied various traditional and Deep Learning techniques for detecting image forgery
  - Implemented Vision Transformers for Deepfake Detection and co-authored a draft research paper

## Projects

- Dialogue - Web Chat** github/Dialogue  
Designed a real-time chat application using the MERN stack, Redux hooks and socket programming, enhancing interaction speeds.
- Task Management with Raft Consensus Algorithm** github/TaskApp  
Implemented it for fault-tolerant distributed systems (Raft Consensus) with StreamlitUI and MySQL, achieving high consistency across nodes.
- Bus Reservation System** github/busReserve  
Built a Spring Boot MVC-based bus reservation system following SOLID and GRASP principles, enhancing code maintainability.
- Travela** github/Travela  
Crafted an LLM-powered one-stop shop for flight and cab transfer offers in an 8-hour hackathon; led the team presentation and engineered the SQL/Llama3.1 backend.
- Multi-Event Anomaly Detection for Enhanced Video Surveillance** Present  
Leading a team of 4 and innovating a robust, multimodal violence/vandalism/abandoned object detection model and co-authoring a research paper based on our findings
- Accenture North America Data Analytics and Visualization Job Simulation** Aug 2024  
Analyzed, modelled and cleaned large datasets to complete a simulation advising a hypothetical social media client, thereby driving content optimization efforts

## Skills

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- **Coursework:** Data Structures, Statistics for Data Science, Operating Systems, Computer Networks, DBMS, Data Analytics, Software Engineering, Machine Intelligence, Cloud Computing, Object-oriented Analysis & Design
- **Languages:** Python, R, Java, C/C++, SQL, JavaScript, HTML/CSS, MATLAB
- **Frameworks:** React, MERN Stack, Spring-Boot MVC, Node.js, StreamlitUI, Langchain, HuggingFace Transformers, Ollama, LMStudio
- **Cloud/Databases/Containerization:** AWS, MongoDB, MySQL (phpMyAdmin), RDBMS, Neo4j, Docker, Kubernetes

## Certifications

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- **Machine Learning Specialization, DeepLearning.AI:** Coursera
- **Jira Work Management Fundamentals:** Atlassian
- **Linux Kernel Development:** The Linux Foundation
- **Cloud Computing 101:** AWS Educate

## Co-Curriculars & Interests

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- Avid reader with a strong interest in creative and technical writing, contributing regularly to various platforms
- Active member of writing club – WriteAngle; collaborated on editorial projects for monthly college newsletter
- Learning **French (B2)** and **German (A2)** to enhance communication and cultural awareness