

Ria R Kulkarni

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Education

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| 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

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| 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

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|---|-------------------|
| • 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 and modelled large datasets to complete a simulation advising a hypothetical social media client | |

Skills

- **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

- **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

- 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 monthly college newsletter
- Learning **French (B2)** and **German (A2)** to enhance communication and cultural awareness