Rishith Kumar Pachipulusu

Bachelor of Technology

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About Me

Full-Stack Developer with a strong backend focus in Java Spring Boot, and a passion for building scalable applications. Experienced in Machine Learning, NLP, and Data Science, with hands-on projects combining software engineering and AI to deliver real-world solutions.

Technical Skills

Languages:	Java, Python, SQL
Web:	HTML, CSS, JavaScript, React.js
Backend:	Spring Boot, Node.js, REST APIs
Cloud/DB:	AWS, MySQL, MongoDB
Tools:	Git, Docker, GitHub Actions
AI/ML/NLP:	Scikit-learn, Pandas, NumPy, TensorFlow, Keras, NLTK, Hugging Face, BERT, Whisper
Soft Skills:	Teamwork, Problem-Solving, Communication

Projects

Portfolio Website   🔗 *Demo*
- Built a personal portfolio using React.js, Tailwind CSS, and Framer Motion to showcase projects and certifications.
- Integrated dynamic routing, dark/light themes, and responsive UI for optimal user experience.
- Deployed on Vercel with SEO optimization and GitHub-linked content.

Smart-Summary Q&A Platform   🔗 *Demo*
- Developed an AI Q&A tool using Whisper (speech-to-text) and BART + OpenAI for summarization and question generation.
- Implemented real-time transcript updates using React, Node.js, FastAPI, and WebSocket integration.
- Enabled transcript downloads and intelligent Q&A from live audio/video inputs.

MedReserve AI – Healthcare Booking System   🔗 *Demo*
- Engineered a full-stack appointment platform using Spring Boot, React.js, and FastAPI.
- Integrated JWT authentication with role-based access for patients, doctors, and admins.
- Added NLP-based chatbot for symptom-to-doctor suggestions; deployed via Render and Vercel.

Deepfake Detection (CNN-LSTM)
- Hybrid model using CNN and LSTM on DFDC dataset.
- Improved detection through spatio-temporal pattern analysis.

Education

Degree / Level	Institution & Location	Year
B.Tech in CSE (AI & ML), CGPA: 8.12	VIT-AP University, Amaravati	2022–2026
Intermediate – 79%	Narayana N120 College, Vijayawada	2020–2022
SSC – 100%	Visvabharati High School, Gudivada	2019–2020

Certifications

AWS Academy Cloud Foundations Badge – AWS Academy	🔗 Certificate
Python for AI – Boston Training Academy	🔗 Certificate
Full Stack Web Development - SmartED Innovations	🔗 Certificate
Oracle Certified Generative AI Professional – Oracle University	🔗 Certificate

Extra-Curricular Activities

Photography Club – VIT-AP University   *July 2023 – May 2024*
Created multimedia content for university events as an active member.

LEO Club – Lions Club, VIT-AP University   *June 2024 – March 2025*
Co-led social media efforts and participated in outreach programs.

IEI (Institution of Engineers of India)   *June 2024 – Present*
Contributed to technical documentation and content creation for organizational events.