Thammi Rishika

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Professional Summary

AI/ML Engineer specializing in building intelligent multi-agent systems and AI automation solutions using LangChain, LangGraph, and Large Language Models. Expertise in Agent-to-Agent (A2A) communication protocols, prompt engineering, and RAG architectures. Strong foundation in machine learning pipelines, data preprocessing, and generative AI with hands-on experience deploying scalable AI solutions. Proven ability to collaborate across teams and effectively communicate technical concepts to diverse stakeholders.

Professional Experience

AI & ML Engineer | Kairos (2025 – Present, Hyderabad, India)

- Architected multi-agent AI systems using LangChain and LangGraph to automate website analysis and workflow generation.
- Implemented A2A communication protocols for distributed task execution.
- Built automated BDD test case generation pipelines leveraging NLP and LLMs.
- Designed RAG architectures using vector databases and semantic search.
- Applied few-shot learning and chain-of-thought prompting for generative AI models.
- Collaborated with cross-functional teams to translate business requirements into scalable AI/ML solutions.

Fullstack Developer Intern | Cognizant Technology Solutions (2025, Remote/Hyderabad)

- Built and maintained scalable front-end and back-end features using React.js, JavaScript, and REST APIs, ensuring high performance and seamless integration.
- Performed API testing using Postman and bug reporting with ALM tools.
- Participated in full SDLC including design, testing, and deployment phases.
- Joined client discussions to clarify business logic and user expectations.
- Collaborated with cross-functional teams on UI design and QA testing.
- Developed and consumed RESTful APIs with JSON handling to integrate backend services.
- Implemented responsive web components using HTML5, CSS3, and React.js for cross-device compatibility.
- Utilized Git for version control and participated in code reviews to maintain reusable code.

Technical Projects

Detecting Stress Based on Social Interactions | Sentiment Analysis & NLP

- Developed ML models to analyze social media posts for emotional stress detection using NLP and sentiment analysis.
- Implemented preprocessing pipelines and applied supervised classification algorithms.
- Used Python libraries (pandas, NumPy, NLTK) for data processing and visualizations.

PAKE: Secure Authentication System | Cryptographic Security

- Designed secure authentication system extending PAKE protocols with cryptographic algorithms and real-time session security.

Education

- **B.Tech in Computer Science (Data Science)** — Mahatma Gandhi Institute of Technology, Hyderabad (2021–2025) | CGPA: 8.7
- **Intermediate (MPC)** — Narayana Junior College, Hyderabad (2019–2021) | Percentage: 88%
- **SSC** — Johnson Grammar School, Hyderabad (2018–2019) | CGPA: 8.8

Academic Courses

- Object Oriented Programming using Java
- Design and Analysis of Algorithms
- Data Structures and Operating Systems

- Machine Learning and Software Engineering

Technical Skills

- **Languages:** Java, Python, C, SQL (MySQL), JavaScript (ES6+), HTML, CSS, TypeScript
- **Tools & Technologies:** Git, IntelliJ, Postman, Tableau, ALM Tools, Redux, State Management
- **Concepts:** RESTful APIs, JSON, API Testing, Debugging, SQL Querying, Version Control, Webpack, Responsive Design, CI/CD Basics
- **Frameworks:** React.js
- **AI/ML & Generative AI:** LangChain, LangGraph, LLMs, Multi-Agent Systems, Prompt Engineering, RAG, TensorFlow, PyTorch, NLP, Transformers

Soft Skills

Problem-Solving • Collaboration • Communication • Attention to Detail • Adaptability • Time Management • Continuous Learning • Peer Mentorship

Leadership & Activities

Student Coordinator, Hacksavvy Hackathon 2024 & 2025 (3000+ participants) • Student Coordinator, Magistech Technical Fest 2024 • Volunteer, Street Cause 2022