

Reetu Paila

+91 91776601097 | LinkedIn | reetupaila03@gmail.com | Hyderabad, India

Summary

Final-year Computer Science student passionate about creating scalable software and delivering practical AI-driven solutions. Skilled in Python, GenAI, Retrieval-Augmented Generation (RAG), and MLOps. I have a proven ability to work with teams, turn client needs into technical specifications, and explain complex AI concepts clearly to stakeholders. I am a quick learner with a strong problem-solving approach and business sense.

Education

Keshav Memorial Institute Of Technology

Nov 2022 – May 2026

Bachelor of Technology in Computer Science | CGPA: 8.4/10

Hyderabad, Telangana

Relevant Coursework

- Data Structures
- Algorithms
- Distributed Systems
- Networking & TCP/IP
- Web Development
- Operating Systems
- Database Management
- Artificial Intelligence

Projects

Scalable ML Pipeline for Anomaly Detection | *Python, C++, TensorFlow, Kubernetes, Jenkins, AWS* **Aug 2025**

- Engineered a distributed ETL + ML pipeline processing millions of IoT sensor records for anomaly detection.
- Offloaded compute-heavy preprocessing tasks to optimized C++ extensions, achieving 3× throughput on large datasets.
- Deployed TensorFlow models on Kubernetes clusters with automated retraining pipelines orchestrated via Jenkins CI/CD.
- Integrated monitoring with AWS CloudWatch and Prometheus, reducing downtime by 25% through proactive alerts.

Distributed Data Processing Pipeline | *Python, C++, ETL, SQL, Linux*

Sep 2024

- Designed a distributed ETL pipeline in Python, offloading compute-heavy operators to optimized C++ extensions.
- Implemented parallelized data transformations (joins, filtering, aggregations) reducing pipeline runtime by 50% on large datasets.
- Developed fault-tolerant task scheduling and retry mechanisms, ensuring reliability under high-load conditions.
- Built a performance monitoring module to track latency, throughput, and resource utilization.

Intelligent Document Q&A System | *Python, FastAPI, HuggingFace, RAG, React.js*

Dec 2024

- Developed a Retrieval-Augmented Generation (RAG) pipeline to answer natural language questions from uploaded PDFs.
- Implemented embeddings-based retrieval using HuggingFace Transformers and FAISS vector search.
- Built a FastAPI backend with REST endpoints and React.js front-end for interactive Q&A.
- Optimized inference pipeline to reduce latency by 35%, improving user experience in live queries.

Technical Skills

Languages: C, C++, Python, Java, SQL, HTML/CSS, JavaScript

Frameworks/Tools: TensorFlow, PyTorch, Keras, Flask, React.js, FastAPI, Node.js, Express.js, scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Docker, Kubernetes, GitHub, Jenkins, WebSocket

Systems & Platforms: Linux, Distributed Systems, Multithreading, Google Cloud Platform (GCP), AWS, Tableau, Jupyter Notebook, Eclipse, WordPress

Achievements

- Top 50 finalist in BITS Pilani Hackathon for AI automation project (22 hours).
- 2nd place, college Web Dev Hackathon – created a full-stack app in 24 hours.
- Awarded Best Project Presentation for Face Recognition Attendance System at KMIT.
- Earned **AWS Cloud Practitioner Certification**, validating cloud computing fundamentals and deployment skills.
- Completed multiple **Salesforce Trailhead modules** including Admin Beginner, Business Process Automation, Data Management Specialist Superbadge, and App Customization Specialist.
- Achieved Salesforce **CRM Essentials, Cloud Basics, and Reporting & Dashboard Specialist** badges, demonstrating CRM proficiency and cloud platform fundamentals.