

ALAPATI SAI NIKHIL BALAJI

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EDUCATION

Gandhi Institute of Technology and Management, Hyderabad, India 2021 – 2025
Bachelor of Technology, Computer Science and Engineering (Data Science)
Coursework: Database Management Systems, Operating Systems, Data Structures, Probability & Statistics, Artificial Intelligence, Deep Learning.

Internships

- The Ksquare Group**, India Intern — Salesforce Developer March 2025 – August 2025
• Built a Sales Deal Review app (objects, flows, Apex triggers, LWC) with approvals and deal alerts; authored SOPs and checklists for reliable releases.
• Executed BOSL production data loads (Excel → Data Loader) with QA and reconciliation; wrote validation queries to ensure referential integrity.
• Implemented ContentVersion-based document generation for Balance Confirmation & Availability Reports.
- ATMECS**, India Intern — AI Engineer May 2024 – July 2024
• Built Python microservices for a multi-agent RAG system (LlamaIndex, LangChain); exposed REST endpoints and integrated request/response schemas.
• Deployed services using containerized inference (NVIDIA NIM/Docker); added basic health checks and logs for fast debugging and same-day turnarounds.
- CEPOCH**, Hyderabad, India Computer Vision Intern January 2024 – March 2024
• Trained YOLO-based detection in Python (PyTorch/OpenCV) for arrow-shaped artifacts; packaged inference as a callable module for downstream use.
- SATRA**, Hyderabad, India Intern - Software Engineer October 2023 - December 2023
• Worked on computer vision and deep learning projects, applying Python and Java to implement advanced object detection algorithms.
• Contributed to model development, testing, and optimization with cross-functional teams.
• Demonstrated adaptability and productivity, maintaining a commitment to staying abreast of industry trends.

PROJECTS

- ValorMM — Local Multimodal AI Chat** *FastAPI, PyTorch/Transformers (Qwen2-VL-2B), Next.js/React, Tailwind, CUDA, SSE*
GitHub: github.com/BBALU1660/ValorMM
• Implemented a **FastAPI** backend with **SSE streaming**, secure PDF→image processing, and structured JSON contracts; integrated a React UI (attach/drag&drop/paste, previews).
• Tuned inference (4-bit quantization, adaptive image sizing) to run on 4 GB VRAM; median response ~2.3s @128 tokens.
- Banklytics Loan Risk Pipeline** *Python, Pandas, MySQL, Streamlit, Plotly, ETL*
GitHub: github.com/BBALU1660/Banklytics-Loan-Risk-Pipeline
• Engineered an automated **ETL pipeline** using **Pandas** to ingest raw loan data, calculating critical risk metrics (DTI, risk categories) and storing structured results in **MySQL**.
• Developed an interactive **Streamlit** dashboard with **Plotly** visualizations to monitor loan risk KPIs, enabling real-time segmentation of borrowers and reducing manual analysis time.

PUBLICATIONS

- M-Bot: Bridging the Gap in Mine Safety for Non-Literate Workers through Multilingual Chatbots Assistance
Publication — IEEE November 2024
- Leveraging Deep Learning for Accurate Rice Leaf Disease Recognition
Publication — International Journal of Advanced Research in Computer Science May 2024

CERTIFICATIONS

Salesforce Certified Platform Administrator

March 2025

ACHIEVEMENTS

- Qualified for Round 2 of Smart India Hackathon (SIH).
- Top 30 nationwide in IIT Hyderabad's Build Programme (2023).
- Secured 1 lakh prototype funding in Northeastern University's Ready-Set-Go program; received EoI from Adani Ports.

SKILLS

Programming: Python (OOP, exceptions, file I/O), SQL, Java, C, C++

Databases: MySQL

Data/Analysis: Pandas, NumPy

DevOps/Tools: Git/GitHub, Docker, Linux, Jupyter

Cloud/BI: Power BI

Salesforce: Apex, Lightning Web Components (LWC), Administration

Ways of Working: Agile/Scrum basics; ownership mindset; comfortable in fast, ambiguous environments