

# Atthavelli Karthikeya

☎ +91 9110568758 ✉ akarthikeyasmail@gmail.com 🔗 linkedin.com/in/karthikeya-atthavelli 🍷 Idioticapricot

## EDUCATION

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**Jawaharlal Nehru Technological University Hyderabad** Hyderabad, India  
*Bachelor of Technology in Computer Science and Engineering (CGPA: 7.5/10)* *Jul 2023 – Jun 2028 (Expected)*  
– Relevant coursework includes Data Structures, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems, and Machine Learning.

## EXPERIENCE

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**Data Analyst Intern** Nov 2024 – Jan 2025  
*AICTE* *Remote*  
– Processed and analyzed more than 50,000 structured records using Pandas and NumPy to improve reporting accuracy.  
– Automated data cleaning workflows using Python, reducing manual reporting effort by 40%.  
– Developed stakeholder dashboards using Matplotlib and Seaborn to visualize key performance indicators across datasets.

## PROJECTS

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**Orca | Python, Kubernetes, Kaniko, Algorand** Live | GitHub  
– Architected a decentralized AI agent marketplace enabling containerized deployments directly from GitHub repositories.  
– Implemented Kaniko-based in-cluster Docker image builds, eliminating external CI pipelines and improving deployment security.  
– Designed execution gating using Algorand atomic transactions to verify payments before processing compute jobs.  
– Engineered auto-scaling Kubernetes infrastructure with isolated pods, ingress routing, and automated SSL provisioning for each deployed agent.  
– Developed a Python SDK that abstracts job lifecycle management, reducing integration complexity by 40%.  
– Built an MCP-based orchestration layer exposing deployed agents as structured callable tools with schema validation.

**AlgoCraft | Next.js 14, TypeScript, Supabase, RAG** Live | GitHub  
– Won first place at Algorand Hack Series 2 (India Summit) and secured a \$1000 prize for best developer tool.  
– Built a zero-setup browser-based IDE supporting PyTeal, TealScript, and PuyaPy smart contract development.  
– Integrated Monaco Editor with custom language tooling for real-time syntax validation and diagnostics.  
– Developed an isolated compiler service achieving three times faster build speeds compared to browser-based compilation.  
– Implemented a RAG-based coding assistant using embeddings from official Algorand documentation for contextual debugging.  
– Designed AlgoCraft Flow, a visual block-based interface that transpiles user logic into production-ready PyTeal code.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, C++, Java, SQL  
**Cloud and DevOps:** Kubernetes, Docker, Kaniko, Nginx, Linux, GitHub Actions  
**Frameworks:** FastAPI, Next.js 14, React, Node.js, LangChain  
**AI and Data:** PyTorch, FAISS, Retrieval-Augmented Generation (RAG), Pandas, NumPy  
**Blockchain:** Algorand smart contracts, Web3.js, atomic transactions

## HONORS AND ACHIEVEMENTS

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**Winner, Algorand Hack Series 2 (India Summit)** — 4th place, \$1000 prize.  
**HackRX Finalist** — Top 30 nationwide.