

MADHAN J



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SUMMARY

Final year B.Tech student with a strong foundation in AI/ML, Cloud Computing, and Full-Stack Development. Proven track record of winning multiple national and international hackathons with hands-on experience building production-ready AI systems. Strong problem-solver with expertise in deploying scalable cloud solutions and building intelligent LLM-powered applications.

EDUCATION

Vemu Institute of Technology

B.Tech in Computer Science and Engineering (AI) | CGPA: 8.2

Chittoor, India

2022 – 2026

Narayana Jr College

Intermediate – Maths, Physics, Chemistry | Percentage: 85%

Tirupati, India

2019 – 2021

TECHNICAL SKILLS

Foundations: Data Structures & Algorithms, Machine Learning, Deep Learning, Computer Vision, NLP, Cloud Computing, System Design, REST API Development

Languages: Python, SQL, JavaScript, TypeScript, Rust

Frameworks & Libraries: Flask, FastAPI, TensorFlow, PyTorch, Scikit-learn, XGBoost, Pandas, NumPy, OpenCV, LangChain, LangGraph

Full Stack: React.js, Node.js, HTML/CSS

Cloud & DevOps: Google Cloud Platform, Microsoft Azure (AI Services), Docker, Git/GitHub

Databases: MySQL, Firebase, SQLite, PostgreSQL

Certifications: AWS Certified Cloud Practitioner, Microsoft Certified: Azure AI Fundamentals, e-Yantra Entrepreneurship (IIT Bombay)

INTERNSHIP EXPERIENCE

Generative AI & Full Stack Developer Intern

Nov 2025 – Apr 2026

Hrtek System (Remote)

Lucknow, India

- Built AI agents and RAG pipelines using LangChain and LangGraph to automate core HRIS/HCMS workflows including employee onboarding, policy Q&A, and HR service automation.
- Fine-tuned LLMs on proprietary HR data to enhance HRM modules through automated job description generation, interview question creation, and performance review templates.
- Contributed to end-to-end full stack development lifecycle including feature enhancement, change request management, and implementation support for HR Tek System's HR Technology product ecosystem.

Summer Research Intern

Jun 2025 – Jul 2025

Maulana Azad National Institute of Technology (MANIT)

Bhopal, India

- Created and deployed an AI-facilitated facial authenticity verification system achieving 99.4% accuracy.
- Developed 81 unique image features and conducted comparative analysis across 7 ML and 4 DL architectures.
- Achieved 98.5% accuracy with ResNet50 transfer learning model using TensorFlow, OpenCV, and Scikit-learn.

PROJECTS

CiteCraft.AI | AI-Powered Research Paper Generator | Python, Flask, FastAPI, PostgreSQL

Sep 2025

- Built an AI-powered platform that transforms research abstracts into professionally formatted academic papers with automated structure generation and content coherence.
- Implemented a multi-format citation system supporting APA, MLA, IEEE, and Chicago styles with automatic bibliography generation and reference formatting.
- Integrated plagiarism detection and real-time collaborative editing with export capabilities in PDF and DOCX formats.

ONeDeFi | AI-Powered Multi-Chain DeFi MCP Server | Python, Flask, Web3.py, Solana SDK

Aug 2025

- Built an intelligent DeFi operations system with AI-driven portfolio management across Ethereum, Polygon, and Solana.
- Delivered systematized yield optimization, risk assessment, and multi-chain portfolio tracking with 99.9% uptime.

- Implemented MCP Protocol integration for seamless cross-chain blockchain interactions.

ZKGate | *Privacy-Preserving Decentralized Identity* | Solidity, Groth16 ZKP, HashKey Chain **Apr 2026**

- Built a privacy-preserving identity verification system using Groth16 zero-knowledge proofs on HashKey Chain, enabling credential verification without exposing personal data.
- Implemented on-chain ZK proof verification with smart contracts, supporting selective disclosure of identity attributes for compliant DeFi access.
- **Won 2nd Place (3,000 USDT)** in the ZKID Track at the HashKey Chain Horizon Hackathon (international competition).

ACHIEVEMENTS

2nd Place (3,000 USDT) – ZKGate | ZKID Track, HashKey Chain Hackathon (*International*) **Apr 2026**

Winner – Codesangram 2k26 & Best UI/UX Design | Alliance University **Feb 2026**

Winner – AI Research Innovation Hackathon | MIT Mysore **Sep 2025**

Winner – Aya AI Hackathon 2025 | IIIT Bangalore **Aug 2025**

Winner – CodeSangram 2025 & Bangalore Tech Innovation 2025 | Alliance University **Mar2025**

Finalist – e-Yantra Innovation Challenge | IIT Bombay Fellowship Certification **Aug 2024 –Mar 2025**