EDUCATION

███████████████████████

Bachelor of Technology in CSE (Data Science), Current CGPA: 9.50   ████████ – *Present*

████████████ **School**

Class 12th, Percentage: 92.8% (Mathematics, Physics, Chemistry)   ████████ – ████████

EXPERIENCE

Project Engineer   Remote

Kalvium   ████████ – *Present*

- Developing full-stack applications using ████.js frontend with ████.js/████ backend, implementing responsive UI components and RESTful API integrations for scalable web solutions.
- Building cloud-native applications on AWS/GCP with containerized deployments, participating in Agile development cycles with focus on clean code practices and automated testing.

███████████████████████ **Analyst**   ████████, ███

████ (████████████)   ████████ – ████████

- Architected full-stack property management platform using ████.js, ████.js, and PostgreSQL, implementing real-time chat features and advanced search algorithms that improved user engagement by 35%.
- Developed machine learning recommendation system using Python and TensorFlow, creating automated data pipelines that enhanced property matching accuracy by 25% through collaborative filtering.

Data ████████ & Backend Developer   Remote

Zidio Development   ████████ – ████████

- Engineered end-to-end data science solutions using Python, pandas, and scikit-learn, building predictive models and deploying them via ████ APIs with ████ containerization.
- Created interactive data visualizations using D3.js and Plotly, delivering insights through ████-based dashboards that reduced decision-making time by 40% for business stakeholders.

Computer Vision Research ████████   Remote

National Chung Cheng University, ████████   ████████ – ████████

- Developed real-time computer vision applications using OpenCV, TensorFlow, and PyTorch, creating accident detection systems with 92% accuracy through advanced deep learning architectures.
- Published research findings in international conferences, collaborating with global teams using version control, continuous integration, and agile methodologies for reproducible research outcomes.

Mobile Developer & Data Analyst   ████████, ███

SRM Hospitals   ████████ – ████████

- Built cross-platform mobile application using Flutter and Dart, integrating with Firebase backend and implementing secure patient data management systems compliant with healthcare regulations.
- Developed analytics dashboard using Python, SQL, and ████████, creating automated reporting systems that improved operational efficiency by 30% and reduced manual data processing time.

KEY PROJECTS

Blockchain-Secured PII Data Masking Platform   Ethereum, Solidity, Python, ████, IPFS, Web3.js

- Architected enterprise-grade document security system using blockchain technology and advanced cryptographic algorithms, achieving 99.99% data integrity with immutable audit trails for sensitive PII information.
- Implemented smart contracts in Solidity for decentralized access control and automated compliance reporting, integrating with IPFS for distributed storage and reducing data breach risks by 85%.

6G AI-Native Network Slice Orchestration System   Python, TensorFlow, 5G Core, Kubernetes, gRPC

- Pioneered next-generation 6G network architecture using AI-driven slice allocation algorithms, implementing reinforcement learning models that optimized network resource utilization by 45% compared to traditional methods.

- Built intelligent network orchestration platform using microservices architecture with ███████, integrating with 5G Core networks through gRPC APIs and achieving sub-millisecond latency for critical applications.

AI-Powered Accident Detection System   Python, TensorFlow, ████, InceptionV3, ███████
- Published research paper implementing CNN-based accident detection using █████ and InceptionV3 architectures, achieving 94% accuracy in real-time video analysis with comprehensive dataset validation.
- Optimized deep learning models for edge deployment, reducing computational requirements by 35% while maintaining high accuracy for resource-constrained environments.

ChromaGenius: Deep Learning Image Colorization   Python, GANs, ███████, ████████████
- Developed sophisticated GAN-based image colorization system, achieving 20% performance improvement through iterative refinement and advanced training techniques.
- Optimized neural network architecture and training pipeline, reducing processing time by 25% while maintaining photorealistic colorization quality for historical image restoration.

ACHIEVEMENTS & PUBLICATIONS

Winner, ████ 6G Hackathon (█████) – Developed next-generation wireless communication solutions using AI-native network architectures for intelligent slice allocation and resource optimization.

First Prize, HackTrax Hackathon – Created innovative full-stack application with blockchain integration and real-time data processing capabilities for decentralized systems.

Research Publication: "Real-Time Accident Detection with Deep Learning" - International Conference on Pattern Recognition, demonstrating practical applications of CNN architectures in safety systems.

Global Rank 496, ███ CodeVita International Coding Competition (Top 1% globally) - Advanced algorithmic problem solving and competitive programming excellence.

Top ████ Global, Meta Hacker Cup - Demonstrated expertise in complex algorithm design, data structures, and optimization techniques on global competitive platform.

CERTIFICATIONS & TRAINING

Google AI/ML AICTE Virtual Internship - Advanced Machine Learning, TensorFlow, and practical AI implementation in real-world applications with hands-on project experience.

NPTEL Python for Data Science - Elite Grade (Top 2%) - Comprehensive training in Python programming, data analysis, visualization, and statistical modeling techniques.

AWS Certified Developer Associate - Cloud computing, serverless architectures, containerization, and modern deployment strategies for scalable applications.

TECHNICAL SKILLS

Programming Languages: Python, ████Script, ████, C++, TypeScript, SQL, R, ████, Solidity
Frontend Development: React.js, Vue.js, HTML5, CSS3, Bootstrap, ███████ CSS, WebAssembly
Backend Development: Node.js, Express.js, Django, ████, Spring Boot, FastAPI, gRPC
Blockchain & Cryptography: Ethereum, Solidity, Web3.js, IPFS, Smart Contracts, Post-Quantum Crypto
AI/ML & Deep Learning: TensorFlow, ███████, Scikit-learn, TensorRT, AutoML, NLP (BERT, spaCy)
Network & Telecommunications: 5G/6G Core, Network Slicing, SDN/NFV, ████████ Orchestration
Database Technologies: PostgreSQL, MongoDB, MySQL, Redis, Firebase, Distributed Databases
Cloud & Edge Computing: AWS, GCP, ██████, ██████████, NVIDIA Jetson, Edge AI, HPC
Data Science & Analytics: Pandas, NumPy, Apache Spark, ███████, ███████, Big Data Processing
Specialized Technologies: █████████████, Quantum Computing, IoT, WebRTC, Federated Learning