[redacted] | [redacted] [redacted]

Education

[redacted] Institute of Technology [redacted], [redacted]
Bachelor of Technology in CSE (Data Science), Current CGPA: 9.50 [redacted] – *Present*

[redacted] [redacted], [redacted]
Class 12th, Percentage: 92.8 [redacted] – [redacted]

[redacted] ([redacted]) [redacted], [redacted]
Class 10th, Percentage: 92.8 [redacted] – [redacted]

Experience

Backend [redacted] Intern BRC [redacted]
Rento(StartUp-[redacted]) [redacted] – *Present*

- Developing backend services using [redacted] for a startup's property management platform.
- Implementing robust and scalable backend architecture to support core business functionalities.

[redacted] Intern Remote
Zidio Development [redacted] – [redacted]

- Optimized a deep learning-based segmentation system, reducing processing time by 40%.
- Refactored backend data pipelines with Python and [redacted], improving API response time.
- Collaborated with engineers to deploy the system using [redacted] and [redacted] Cloud.

Research Intern Remote
National Chung Cheng University, [redacted] [redacted] – [redacted]

- Developed a real-time detection system with OpenPose and C++, improving accuracy by 40%.
- Optimized image processing pipelines, reducing inference time by 20%.
- Implemented a scalable backend using FastAPI and PostgreSQL for video data storage.

[redacted] [redacted]
[redacted] [redacted] [redacted] – [redacted]

- Built a hospital management app using Flutter and Firebase, ensuring 99% uptime.
- Developed REST APIs and authentication, improving data retrieval speed by 50%.
- Optimized real-time appointment scheduling, reducing API latency by 25%.

Projects

Accident Detection Using Machine Learning and [redacted] Python, [redacted], InceptionV3

- Published a paper on an accident detection framework using machine learning and convolutional neural networks ([redacted]) for real-time video analysis.
- Utilized a large dataset to train the model, achieving high accuracy in identifying potential accident scenarios in real-time.
- Combined object detection and motion tracking techniques to accurately detect accident events in various environments.
- Optimized the model to function effectively within limited processing constraints, enhancing real-time applicability.

ChromaGenius: Deep Learning Image Colorization Python, GANs

- Trained a deep learning model for image colorization using Generative Adversarial Networks (GANs).
- Executed adversarial training, enabling the generator to produce realistic colorizations of grayscale images.
- Achieved high-quality results by refining the model through iterative training, enhancing performance by 20%.
- Reduced training time by 25% through model optimization techniques.

Document AI: PDF Data Extraction Layout LLM Model v3

- Developed a PDF data extraction system using Layout LLM Model v3 for accurate, structured data extraction from unstructured documents.

- Automated workflows, achieving a 40% increase in processing efficiency and reducing manual effort.
- Advanced to the finals in a competitive showcase, highlighting the project's innovative impact and practical relevance.
- Optimized processing speed by implementing the Retrieval-Augmented Generation (RAG) technique, improving document parsing time by 20%.

AI-Powered Stock Market Prediction System Python, TensorFlow, LSTM

- Designed a deep learning-based stock market prediction system using LSTM models to analyze historical stock prices and forecast trends.
- Enhanced model accuracy by integrating technical indicators like RSI and MACD as additional features.
- Implemented a pipeline for data preprocessing, feature engineering, and model evaluation, achieving a prediction accuracy improvement of 30%.
- Reduced prediction latency by 20% through optimization of model architecture and hyperparameter tuning.

Peer-to-Peer [redacted] Platform Database, Python, Blockchain

- Constructed a decentralized platform for peer-to-peer energy trading using blockchain technology, reducing transaction costs by 30%.
- Designed a secure transaction system facilitating energy exchange between producers and consumers, improving trading efficiency by 25%.
- Developed smart contracts to automate trading processes, increasing transparency by 40% and reducing manual intervention.
- Integrated real-time analytics tools, optimizing energy usage patterns and enabling users to reduce energy costs by up to 15%.

Secure Data Tokenization & PII Detection System Python, FastAPI, Encryption, ML

- Developed an end-to-end pipeline for encrypting and tokenizing sensitive data using AES encryption.
- Implemented a machine learning model to detect Personally Identifiable Information (PII) in structured and unstructured data.
- Optimized API response time by 30% using FastAPI and parallel processing techniques.

Achievements

Winner, HakTrax Alexa Developer Club Hackathon

Second Prize, Layers 3.0 Competition

TCS Codevita InterNational Coding Competition Rank-496 View Credential

Research Paper on Accident Detection View Credential

Meta Hacker's Cup Participation Top [redacted] View Credential

Certifications

Google AI ML AICTE Virtual Internship View Credential

NPTEL Python for Data Science (Top 2%) View Credential

NPTEL Programming in [redacted] View Credential

Altair Data Science Virtual Internship (AICTE) View Credential

Intel Unnati Lab View Credential

AWS Skill Builder Machine Learning View Credential

Technical Skills

Languages: [redacted], Python, C/C++, SQL,[redacted],Flutter, [redacted]Script
Frameworks: React, [redacted], [redacted], Django,Angular.js
Developer Tools: Git, [redacted], [redacted], Google Cloud Platform, VS Code, Google Colab, Android Studio
Libraries: Pandas, NumPy, [redacted], OpenCV, [redacted]-learn, TensorFlow, Keras, PyTorch, SciPy, seaborn, Plotly
Competitive Skills: LeetCode (1568),Competitive Programming (Codeforces 1300)