



EDUCATION

SRM Institute of Technology <i>Bachelor of Technology in CSE (Data █████), Current CGPA: 9.50</i>	█████, █████ █████ – Present
█████ (█████) <i>Class 10th, Percentage: 92.8</i>	█████, █████ █████
█████ <i>Class 12th, Percentage: 92.8</i>	█████, █████ █████

EXPERIENCE

Data Analyst Intern <i>Zidio Development</i>	<i>Remote</i>
<ul style="list-style-type: none">Engineered a segmentation model using deep learning techniques to categorize large datasets, yielding actionable business insights.Employed convolutional neural networks (CNNs) and advanced algorithms, enhancing segmentation model accuracy by over 35%.Applied data augmentation strategies to bolster model robustness across diverse datasets.Collaborated with cross-functional teams to successfully deploy the segmentation model in production environments.	
Research Intern █████, █████	<i>Remote</i>
<ul style="list-style-type: none">Collaborating with Prof. █████ to develop a real-time illegal trash dumping detection system.Utilizing OpenPose for pose estimation in █████ to identify illegal trash dumping activities with high precision.Designed and deployed a multi-class classification model to differentiate between various types of dumping actions, achieving a detection accuracy improvement of over 40%.Incorporated real-time video processing pipelines, reducing detection latency by 20% for immediate response systems.Leveraged neural networks, combined with object detection and motion tracking, to enhance the detection framework’s accuracy and efficiency.	

PROJECTS

SecureSky AES: Advanced Encryption for Secure Drone Communication	█████
<ul style="list-style-type: none">Facilitated an Advanced Encryption Standard (AES) algorithm in █████ to secure file transfers in drone communication.Ensured data integrity and confidentiality, maintaining secure links in drone operations.Implemented AES with a key size of 256 bits, enhancing security by over 128% compared to 128-bit encryption, making it resistant to brute-force attacks.	
ChromaGenius: Deep Learning Image Colorization	Python, GANs
<ul style="list-style-type: none">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%.	
ParentalEye: Communication App for Pregnant Women	Flutter, Firebase
<ul style="list-style-type: none">Developed a user-friendly mobile app facilitating seamless communication between pregnant women and healthcare providers, increasing user engagement by 50%.	

- Integrated appointment scheduling, medication reminders, and emergency contact options, resulting in a 35% reduction in missed appointments.
- Leveraged Flutter for cross-platform development and ██████████ for backend support, ensuring secure real-time data synchronization and 90% app uptime.
- Enhanced patient satisfaction and healthcare accessibility, with over 75% of users reporting improved communication with healthcare providers.

Document AI: PDF Data Extraction

Layout LLM Model v3

- Engineered a PDF data extraction system utilizing the Layout LLM Model v3.
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- Presented findings and advanced to the finals of a competitive showcase.
- Automated the extraction of structured data from unstructured documents, improving processing efficiency by 40%.

Peer-to-Peer ██████████ 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%.

CERTIFICATIONS	
████████ AI ML AICTE Virtual Internship	View Credential
NPTEL Python for Data Science (Top 2%)	View Credential
NPTEL Programming in Java	View Credential
████████████████ Virtual Internship (AICTE)	View Credential
Meta Hacker's Cup	View Credential
██████ Unnati Lab	View Credential
██████ Skill Builder Machine Learning	View Credential
Research Paper on Accident Detection (Yet to be Published)	

TECHNICAL SKILLS
Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R Frameworks: React, ████████, ████████, ████████ Developer Tools: Git, ████████, ████████, ████████ Cloud Platform, ████████, Visual ████████, PyCharm Libraries: pandas, NumPy, Matplotlib, OpenCV, Scikit-learn, TensorFlow, Keras, PyTorch, SciPy, ████████, Plotly Competitive Skills: Competitive Programming (Codeforces 1300)