



EDUCATION

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

EXPERIENCE

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

PROJECTS

<b>SecureSky AES: Advanced Encryption for Secure Drone Communication</b>	█████
<ul style="list-style-type: none"><li>Facilitated an Advanced Encryption Standard (AES) algorithm in █████ to secure file transfers in drone communication.</li><li>Ensured data integrity and confidentiality, maintaining secure links in drone operations.</li><li>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.</li></ul>	
<b>ChromaGenius: Deep Learning Image Colorization</b>	Python, GANs
<ul style="list-style-type: none"><li>Trained a deep learning model for image colorization using Generative Adversarial Networks (GANs).</li><li>Executed adversarial training, enabling the generator to produce realistic colorizations of grayscale images.</li><li>Achieved high-quality results by refining the model through iterative training, enhancing performance by 20%.</li></ul>	
<b>ParentalEye: Communication App for Pregnant Women</b>	Flutter, Firebase
<ul style="list-style-type: none"><li>Developed a user-friendly mobile app facilitating seamless communication between pregnant women and healthcare providers, increasing user engagement by 50%.</li></ul>	

- Integrated appointment scheduling, medication reminders, and emergency contact options, resulting in a 35% reduction in missed appointments.
- Leveraged Flutter for cross-platform development and [REDACTED] 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 [REDACTED]

- Engineered a PDF data extraction system utilizing the Layout LLM Model [REDACTED].
- 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 [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%.

### CERTIFICATIONS

[REDACTED] AI ML AICTE Virtual Internship	View Credential
NPTEL Python for Data Science (Top 2%)	View Credential
NPTEL Programming in Java	View Credential
[REDACTED] Virtual Internship (AICTE)	View Credential
Meta Hacker's Cup	View Credential
[REDACTED] Unnati Lab	View Credential
[REDACTED] 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, [REDACTED], [REDACTED], [REDACTED]
**Developer Tools:** Git, [REDACTED], [REDACTED], [REDACTED] Cloud Platform, [REDACTED], Visual [REDACTED], PyCharm
**Libraries:** pandas, NumPy, Matplotlib, OpenCV, Scikit-learn, TensorFlow, Keras, PyTorch, SciPy, [REDACTED], Plotly
**Competitive Skills:** Competitive Programming (Codeforces 1300)