

# SRIL SHUKLA

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## SUMMARY

Aspiring **deep learning** and **machine learning** professional with a strong foundation in computer science and hands-on project experience in developing innovative machine learning applications. Passionate about leveraging machine learning for **advanced data analysis**.

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## EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (CHENNAI) 2023 - 2027

- BTECH in Computer Science and Engineering - Core
- CGPA - 9.20 (4th Semester)
- Highest GPA- 9.49 (2nd Semester)

N L DALMIA HIGH SCHOOL 2008 - 2023

- 12th Board Marks : 94.6%
  - 10th Board Marks: 97.00%
  - 4th Highest in the entire school (12th boards)
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## PROJECTS

### DraftEase – Floor Plan to CAD Conversion Tool

- Collaborated with my team M^2.js and built a web-based tool that converts floor plan images into editable CAD files (DXF) without relying on heavy AI models awarded **2<sup>nd</sup> price** at Spectrum'25 hackathon.
- Designed and implemented the **custom floorplan generation algorithm** based on user-defined room dimensions and layout preferences.
- Handled image **preprocessing** and **data filtering** to optimize tracing accuracy and DXF output compatibility with tools like **AutoCAD and LibreCAD**.

### CloudCrypt - A file encryption service for cloud

- Designed a secure encryption system using **Google Cloud KMS** and **AES-256** to protect sensitive company data as a group project with my peers.
- Stored the encrypted data in **Google Cloud Storage buckets**.
- Implemented a **hierarchical key structure** for managing access controls and encryption keys.
- Incorporated **role based access control** with **request access feature** and server managed encryption.

### Hybrid CNN-Transformer for Chest X-ray Classification

- Developed a CNN-Transformer hybrid architecture achieving **96.33% F1-score** on COVID-19, pneumonia, and normal classification using **NIH/Kaggle datasets**.
- Combined multi-scale CNN features with Transformer self-attention to model both local patterns and global lung dependencies.
- Reduced compute by **41%** vs. pure Transformers and outperformed 5 state of the art models with up to **9.33% F1-score gain**.

## DeepDefend - Deepfake Detection & Reporting Platform

- Built DeepDefend which qualified for **top 90** in Hackcelerate hackathon 2025 out of **150 teams** and **3000 applications**.
  - Developed an AI model achieving **87%+ accuracy** for real-time deepfake detection on images and videos.
  - Led model training and data preprocessing using PyTorch on Manjil Karki's deepfake dataset with over **100,000+ images**.
  - Collaborated with my team to build a responsive **UI in React, Tailwind CSS, and Framer Motion** with support for dark mode and live visualizations.
  - Integrated facial landmarks, and batch reporting with **Flask backend** to streamline user experience.
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## SKILLS

- **Technical Skills:** Web Development, Data Structures and Algorithms, Machine Learning & Deep Learning.
  - **Coding Languages:** Python, C++, C, Java, HTML, CSS, JavaScript
  - **Frameworks and Libraries:** TensorFlow, PyTorch, Scikit-Learn, Flask, Numpy, Pandas, Matplotlib, Google API
  - **Other Skills:** Team Work, Communication, Problem Solving
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## KEY ACHIEVEMENTS

- Won **2<sup>nd</sup> place** at Spectrum'25 an **inter-college** hackathon with over **2000+ applicants** and **70+ selected teams** with my brilliant team M^2.js
  - Made it to round 3 (**top 90**) of Hackcelerate Hackathon 2025 with over **3000+ applicants** and **150+ selected teams**
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## EXTRACURRICULAR

- Represented the delegate of Indonesia in VITC INTRAMUN'23, collaborated on the winning resolution paper by leading strategic lobbying efforts.