

# DEV CHARAN SAI P

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## EDUCATION

### Bachelor of Technology in Computer Science and Engineering (AIML)

2022 – 2026

Vellore Institute of Technology • **CGPA: 8.27/10**

- **Relevant Coursework:** Data Science, Machine Learning, Natural Language Processing, Computer Vision
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## TECHNICAL PROFICIENCY

**Languages:** Python, Java, SQL, HTML, CSS

**AI & Cloud Tools:** AWS Cloud, Google Cloud, Tableau, Power BI, Excel, MS Office, Git, Docker, Kafka

**Interpersonal:** Research Oriented Mindset, Leadership & Team Dynamics, Emotional Intelligence

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## PROJECTS & PATENTS

### A Collaborative AI Model for Skin Lesion Classification and Segmentation in Decentralized Environment

Project Lead | VIT Bhopal University | Engineering Project in Community Service

May 2025

- Developed a federated deep learning model to classify and segment skin lesions across distributed healthcare systems without sharing raw data using HAM10000 dataset.
- **Tools:** Python, Jupyter Notebook, TensorFlow, PySyft, U-Net, Matplotlib

### Synthetic ECG Signal Generation with Probabilistic Diffusion Models

Generative AI Engineer | VIT Bhopal University | Academic Project

April 2025

- Developed a GenAI probabilistic diffusion model that is trained on Kaggle's MIT-BIH Arrhythmia.
- **Tools:** Python, PyTorch, NumPy, SciPy, Pandas, Jupyter Notebook

### An AI based System for Diabetic Retinopathy Detection using Federated Learning and Mask R CN

Indian Patent

August 2024

- Designed a privacy-preserving diagnostic system to detect diabetic retinopathy using collaborative training.
- **Tools:** Python, VS Code, PyTorch, Mask R-CNN, Federated Averaging

### Panoptic Image Segmentation Using Deep Learning Model (Detectron2)

Project Lead | VIT Bhopal University | Graded Project Exhibition

November 2023

- Build a comprehensive image segmentation system combining instance and semantic segmentation for advanced scene analysis.
  - **Tools:** Python, Jupyter Notebook, Detectron2, COCO Dataset, OpenCV, Python
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## CERTIFICATIONS & BADGES

- IBM AI Engineering Professional Certificate & Applied Machine Learning in Python by FreeCodeCamp
  - Credly Profile: <https://www.credly.com/users/dev-charan-sai-p.320426ea> (For Digital Badges)
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## EXTRA-CURRICULARS

- **Club President of Cooking & Feasting Club** at VIT Bhopal University, organized multiple food festivals.
  - **Research Analyst** working on **Psychology & Human Behavior**
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## LANGUAGES

- English (Professional) • Japanese (Beginner) • Hindi (Fluent) • Telugu (Native)