

# DEV CHARAN SAI P

Bhopal, Madhya Pradesh • +91 9154689736 • [devcharansaip@gmail.com](mailto:devcharansaip@gmail.com) • <https://github.com/DevCharanSaiP>

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## EDUCATION

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

July 2022 – May 2026

VIT Bhopal University • Bhopal, Madhya Pradesh • CGPA: 8.24/10

- **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, Excel, Git, Docker, Kafka

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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:** TensorFlow, PySyft, U-Net, Matplotlib

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

Indian Patent

August 2024

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

### A Smart Life Jacket System

Indian Patent

May 2024

- Engineered a wearable safety device that detects drowning situations and triggers automatic alerts in real-time.
- Tools: Arduino Uno, GSM Module, Water Sensors, Embedded C

### 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: Detectron2, COCO Dataset, OpenCV, Python
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## CERTIFICATIONS & BADGES

- IBM AI Engineering Professional Certificate & Privacy and Security in Online Social Media (Elite Certificate)
  - 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)