

# Tamma Eshwar Kanth Reddy

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## Professional Summary

Entry-level Software/ML Engineer skilled in Python, C, C++, Machine Learning, and Computer Vision. Experienced in building YOLOv8-based detection models, TensorFlow CNN classifiers, and real-time inference pipelines. Strong foundational knowledge in OOP, DSA, SDLC, and web technologies. Adept at solving problems, optimizing models, and developing end-to-end ML workflows.

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## Technical Skills

**Programming:** C, C++, Python

**Web:** HTML, CSS, JavaScript

**AI/ML:** Machine Learning, Computer Vision, CNN, YOLOv8

**Frameworks/Libraries:** TensorFlow, OpenCV, Ultralytics YOLOv8

**Tools:** Git, GitHub, Jupyter Notebook, VS Code, Google Colab, Roboflow

**Concepts:** OOP, DSA fundamentals, Model Training & Evaluation

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## Education

**B.Tech – Computer Science Engineering (AIML)**

SRM Institute of Science and Technology, Chennai

CGPA: 7.75

Year of Passing: 2025

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## **Internship Experience**

### **Software Intern – Digue Technologies**

19/06/2023 – 02/08/2023

- Processed and analyzed **50,000+ records** for Credit Card Fraud Detection using Python, improving preprocessing efficiency by **20%**.
  - Built and evaluated ML models (Logistic Regression, Random Forest, XGBoost), achieving **up to 94% accuracy** and reducing false positives by **8%** through hyperparameter tuning.
  - Automated data cleaning steps, decreasing manual workload by **30%**.
  - Collaborated with mentors from Digne TechLabs & IHUB DivyaSampark (IIT Roorkee) to deliver a full ML workflow from preprocessing to model evaluation and documentation.
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## **Projects**

### **Dental Caries Detection using CNN & YOLOv8**

**Technologies:** Python, CNN, YOLOv8, TensorFlow, OpenCV, Roboflow

- Prepared and annotated **2,000+ dental X-ray images** using Roboflow; applied augmentation to increase model generalization by **15%**.
  - Trained **Ultralytics YOLOv8** model for cavity detection, achieving **82% mAP** and **0.76 IoU** after hyperparameter optimization.
  - Developed a CNN classifier in TensorFlow with **91% accuracy** for severity classification of dental caries.
  - Converted YOLOv8 models to **ONNX** and **FP16 precision**, reducing inference latency by **40%**.
  - Integrated **OpenCV DNN** for real-time inference at **~28 FPS** on CPU.
  - Built a complete ML pipeline: preprocessing → annotation → training → evaluation → deployment-ready inference.
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## **Spoken Languages**

English, Telugu, Hindi

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