# DIVYA SREE MURTHY

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## EDUCATION

**B.Tech in CSE (Artificial Intelligence and Machine Learning)** Sri Venkateswara College of Engineering (Affiliated to JNTUA) *Percentage: 80%* 2021–2025

**Intermediate (MPC)** Sri Chaitanya Junior College *Percentage: 94.5%* 2019–2021

## SKILLS

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|---|---|
| **Languages** | Python |
| **AI/ML Libraries** | NumPy, Pandas, Scikit-learn, OpenCV, Matplotlib |
| **Deep Learning** | TensorFlow, PyTorch, Keras, CNN Architectures |
| **NLP & LLMs** | Hugging Face Transformers, GPT Models, RAG Systems, Semantic Search |
| **Generative AI** | Stable Diffusion, Diffusers Library |
| **Backend & APIs** | FastAPI, REST APIs |
| **Databases** | FAISS Vector DB |
| **Tools** | Google Colab, Jupyter Notebook, VS Code, Git |
| **Core Concepts** | Supervised & Unsupervised Learning, ML Algorithms, Deep Learning, NLP, Vector Search |
| **Soft Skills** | Problem Solving, Communication, Team Collaboration |

## INTERNSHIP EXPERIENCE

**AI Engineer Intern** Oct 2025 – Present
NKB Playtech Private Limited - Bangalore (Onsite)

- Researching, developing, training, and testing AI/ML models using Python, PyTorch, OpenCV and Generative AI.
- Documenting experimental results, model architectures, and insights for internal research reporting.

**Python Full Stack Intern (AI Integration)** Dec 2024 – May 2025
EXCELR (AICTE Approved) — Remote

- Developed scalable Django backend for heart disease prediction integrating multiple ML algorithms.
- Automated deployment workflows reducing system latency and improving efficiency by 15%.

**Artificial Intelligence and Machine Learning Intern** May 2024 – July 2024
EXCELR (AICTE Approved) — Remote

- Built CNN-based facial emotion recognition system using FER-2013 dataset.
- Improved model generalization using augmentation, Batch Normalization, and Dropout.

## PROJECTS

### AI Casino (Ongoing)

- Developed a video detection pipeline to identify faces, clothing, tables, and backgrounds in casino frames with SAM3.
- Generated new component variants using Stable Diffusion.
- Developing component-swapping pipeline for real-time augmentation in casino video streams.

### VectorIQ RAG Link

- Built RAG-based intelligent search system using FAISS embeddings and Mistral-7B.

- Processed and embedded 12K+ text segments using transformer-based models to power fast semantic similarity search.
- Implemented retrieval-to-generation pipeline reducing hallucinations.

**Heart Disease Prediction System Using ML Algorithms** Link

- Engineered end-to-end ML system trained on clinical datasets of patients, achieving high prediction accuracy.
- Created visualization dashboards reducing analysis time by 30%.

**Emotion Recognition System Using CNN** Link

- Developed deep learning model using FER-2013 dataset to classify seven emotions achieving high accuracy using CNN, OpenCV, Tensorflow and Keras.
- Integrated fast OpenCV-based face detection enabling sub-100ms predictions.

## CERTIFICATIONS

- AWS Generative-AI — AWS Skill Builder
- Data Science — Internshala
- Python Technology Stack — Infosys Springboard
- Mathematics for Machine Learning — NPTEL