DIVYA SREE MURTHY

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PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience in Computer Vision, NLP, and Generative AI applications. Skilled in building intelligent automation systems using deep learning, RAG pipelines, and scalable API integration. Passionate about developing real-world AI solutions with strong problem-solving and deployment skills.

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

Languages	Python, SQL
Machine Learning	Scikit-learn, Feature Engineering, Model Training, Model Evaluation
Data Analysis & Visualization	Pandas, NumPy, Matplotlib
Deep Learning	TensorFlow, PyTorch, CNNs
Computer Vision	OpenCV, Image & Video Processing, Object Detection, Segmentation (SAM)
NLP & LLMs	Hugging Face Transformers, RAG, FAISS, Embeddings
Generative AI	Stable Diffusion, Diffusers
Backend & Deployment	FastAPI, REST APIs, Model Deployment
Tools & Platforms	MySQL, Docker, Git, Jupyter, Linux, CI/CD(Github Actions)

EXPERIENCE

AI/ML Developer Dec 2025 – Present

Reintenspark Technology Private Limited - Bangalore (Onsite)

- Led development of AI-driven automation systems, reducing manual company workload by 80%.
- Built automated email pipeline, cutting processing time from 3 hours/day to 30 minutes
- Developed documents generation system, producing 1000+ offer letters & certificates/month.
- Built CNN-based emotion detection model and integrated speech-to-text pipelines for automated interview analysis, reducing recruiter screening effort by 40%.
- Mentored 5+ interns, conducted sessions on AI, RAG, ML and DL.

AI Engineer Intern Oct 2025 – Dec 2025

NKB Playtech Private Limited - Bangalore (Onsite)

- Developed AI models using PyTorch and OpenCV for video-based applications.
- Performed data preprocessing, feature extraction, and model evaluation to improve performance.

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-Based Candidate Analysis System

- Built multimodal AI system (CV + NLP) for interview evaluation
- Generated structured outputs: transcripts, emotion labels, behavioral insights.
- Designed trust scoring system improving recruiter decision speed by 40%.

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.

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%.

AI Casino – Video Augmentation & Generative AI Pipeline

- Built object detection & segmentation pipeline using SAM (Segment Anything Model) for video frame analysis.
- Developed component swapping and generative pipeline using Stable Diffusion for dynamic background and table modification.
- Generated 3–5x synthetic video variations from a single input.

CERTIFICATIONS

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