

Yaswanth Deevi

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Enthusiastic computer science engineering student with expertise in machine learning, deep learning, and web development. Experienced in building production-grade ML models, optimization frameworks, and scalable web applications using PyTorch, TensorFlow, and modern cloud infrastructure.

Education

Masters in Computer Science & Engineering Blekinge Tekniska Högskola	Expected Jul 2027
B.Tech in Computer Science & Engineering (GPA 8.54) JNTUH	Dec 2025
TSBIE (94%) Narayana	Apr 2022
CBSE (Secondary Education) (96%) Vignan's Bo Tree	Dec 2020

Work Experience

Research Intern, Defence Research and Development Organisation (DRDO) **Hyderabad, Telangana**
Jul 2025 – Sep 2025

- Designed hybrid metaheuristic optimization framework combining evolutionary algorithms with deep neural networks, achieving 10x faster convergence on P-Center Problems.
- Developed self-adaptive Gaussian mutation and DNN surrogate models, reducing computational time by 70% through advanced ML techniques.
- Enhanced evolutionary algorithm performance using rank-based selection and neural network fitness approximation.
- Code: github.com/skywalker1470/DRDO

Projects

Deepfake Detection System

- Developed Flask web app with PyTorch Xception CNN for real-time video deepfake detection using Celeb-DF dataset.
- Applied hybrid transfer learning: ImageNet-pretrained model with gradual unfreezing and MTCNN face preprocessing.
- Built complete pipeline: frame extraction, data augmentation, model training, Docker deployment.
- Achieved strong performance via accuracy, F1-score, ROC-AUC on Celeb-DF and FaceForensics++ datasets.

- Deployed user interface for video upload, processing, and frame-wise prediction overlay output.
- Code: github.com/skywalker1470/DeepFakeDetection

MNIST Digit Classification using PyTorch Mobile

- Developed digit recognition Android app using PyTorch Mobile with lightweight CNN achieving 98% accuracy.
- Optimized model for mobile inference using TorchScript quantization and pruning techniques.
- Implemented on-device ML pipeline with real-time inference and model update capabilities.
- Code: github.com/skywalker1470/MNIST_project

Skills and Competencies

Machine Learning & AI

PyTorch, TensorFlow, Transformers, CNNs, GANs, RL

Model Optimization, Transfer Learning, MLOps

Programming Languages

C++, Python, JavaScript (ES6+), TypeScript, Go

Cloud & DevOps

AWS (S3, Lambda, EC2), Docker, Kubernetes, Jenkins

FastAPI, MLflow, Weights & Biases

Data Engineering

Feature Engineering, Data Pipelines, ETL
Pandas, Dask, Apache Airflow

Dev Tools

Git, GitHub Actions, Linux Administration
VS Code, Jupyter, Google Colab

Domains

Computer Vision, NLP, Audio Processing
Generative AI, Reinforcement Learning

Web Development

MERN Stack, Next.js, Tailwind CSS, Web Audio API

Others

Flutter, REST APIs, Microservices, Agile

Certifications

- Certificate of Merit - IIT KGP AI4ICPS (Advanced ML & Industrial CPS)
github.com/skywalker1470/iitkgp
- Certificate of Completion - Smart Interviews (System Design & DSA)
smartinterviews.in/certificate/384afcb7