

# Yaswanth Deevi

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 porrtttt.vercel.app

*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

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**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

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**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](https://github.com/skywalker1470/DRDO)

## Projects

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### 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](https://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<sub>p</sub>roject](https://github.com/skywalker1470/MNIST_project)

## Skills and Competencies

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### 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

### Web Development

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

### 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

### Others

Flutter, REST APIs, Microservices, Agile

## Certifications

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