Yaswanth Deevi

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porrttttt.vercel.app

Enthusiastic computer science engineering student with expertise in machine learning, deep learning, and full-stack development. Experienced in building production-grade ML models, real-time web applications, and scalable cloud infrastructure using PyTorch, Next.js, and AWS.

Education

Masters in Computer Science & Engineering Expected Jul 2027
Blekinge Tekniska Högskola

B.Tech in Computer Science & Engineering (GPA 8.54) Dec 2025
JNTUH

TSBIE (94%) Apr 2022
Narayana

CBSE (Secondary Education) (96%) Dec 2020
Vignan's Bo Tree

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.
- 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$_project$

Real-Time Chat Application **Live Demo**

- Built full-stack real-time chat application with Next.js 14, Tailwind CSS, and Socket.io for instant messaging with typing indicators and online status.
- Implemented scalable backend with Vercel serverless functions, PostgreSQL database, and Redis for message caching and user sessions.
- Deployed with CI/CD pipeline, custom domain via Vercel, and comprehensive authentication using NextAuth.js with Google OAuth.
- Added responsive UI, emoji reactions, file sharing, and message search functionality for production-ready experience.
- Live: porrttttt.vercel.app

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, SQL

Full-Stack & Cloud
Next.js 14, Socket.io, Vercel, PostgreSQL, Redis
AWS (S3, Lambda, EC2), Docker, Kubernetes

Web Development
MERN Stack, Tailwind CSS, NextAuth.js, REST APIs

Data Engineering
Feature Engineering, Data Pipelines, ETL, Database Design
Pandas, Dask, Apache Airflow, SQL (PostgreSQL, MySQL)

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

Domains
Computer Vision, NLP, Real-time Systems
Generative AI, Reinforcement Learning

Others
Flutter, Microservices, Agile, CI/CD

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