# DEEPAK JADHAV

AI Engineer | Real-Time Computer Vision & NLP Deployment Specialist
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💻 GitHub: github.com/DeepxkJadhav | Portfolio: deepakjadhav-ai.dev

## SUMMARY

AI Engineer specializing in real-time computer vision systems and NLP model deployment with expertise in TensorFlow Lite optimization, AWS cloud infrastructure, and end-to-end MLOps pipelines. Engineered production-ready solutions including a hand gesture recognition system (94.2% accuracy, vs. 89% SOTA) and fraud news detector (89% precision). Optimized model inference by 35% via quantization and deployed scalable APIs handling 50+ concurrent users with <500ms latency and 99.2% uptime on AWS EC2. AWS Certified Cloud Practitioner.

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## TECHNICAL SKILLS

• AI/ML: Python, TensorFlow, PyTorch, Keras, OpenCV, MediaPipe, Scikit-learn, BERT, LSTM, Transformers, Gunicorn
• Data & Analytics: SQL, Pandas, NumPy, Matplotlib, Tableau
• Deployment & Cloud: Docker, Flask, REST APIs, AWS (S3, EC2, SageMaker), TensorFlow Lite, Nginx
• Concepts: Deep Learning, Natural Language Processing, Computer Vision, Model Optimization, MLOps, Data Preprocessing
• Web: JavaScript, HTML/CSS

## EDUCATION

B.Tech in Computer Science (AI Specialization)
Parul University | 2023 – 2027 (Expected)
• Relevant Coursework**: Deep Learning (A), Natural Language Processing(A-), Computer Vision (B+), Data Structures (A)
• CGPA: 6.4/10 | Top 30% in AI Specialization Track
• Capstone: Human Emotion & Hand Gesture Recognition System (TensorFlow + MediaPipe)

## PROJECTS

Human Emotion & Hand Gesture Recognition System
`Computer Vision` `TensorFlow Lite` `AWS EC2` `Gunicorn'

• Engineered real-time detection system using MediaPipe + LSTM achieving 94.2% accuracy on 5K+ samples (vs. 89% SOTA), deployed via Flask + Gunicorn on AWS EC2 (t3.medium).

• Optimized inference speed by 35% using TensorFlow Lite quantization; handled **50+ concurrent users with <500ms latency and 99.2% uptime.

• Tools: Python, OpenCV, MediaPipe, Docker, AWS EC2, Nginx
AI-Powered Fraud News Detection Engine
`NLP` `BERT` `JavaScript` `AWS S3'

• Trained BERT-based model on 10K+ FakeNewsNet articles achieving 89% precision; reduced false positives by 22% via BERT + TF-IDF ensemble.

• Built JavaScript dashboard for real-time analysis; deployed pipeline on AWS S3 with 99.5% data integrity**.

• Tools: Hugging Face Transformers, SQL, Flask, JavaScript, AWS S3, Docker*

## CERTIFICATIONS

• AWS Certified Cloud Practitioner | Amazon Web Services | 2024
• IBM AI Engineering Professional Certificate | Coursera | 2024

## ADDITIONAL

• Languages: English (Fluent), Hindi (Fluent), Gujarati (Native)
• Open Source: 3 GitHub projects with production-grade documentation (Dockerfiles, requirements.txt, performance metrics)
• Portfolio: Live demos of gesture recognition & fraud detection systems (deepakjadhav-ai.dev)