SHUBHAM GAJJAR

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PROFESSIONAL SUMMARY

Artificial Intelligence Engineer with expertise in deep learning and computer vision, delivering production systems serving 10,000+ daily users. Published researcher achieving 99.59% accuracy in medical image segmentation and 96.3% in skin cancer classification. Proven ability to reduce processing time by 75% through distributed computing while collaborating in Agile teams.

EDUCATION

Northeastern University, Portland, ME — September 2025 – May 2027
Master of Science in Artificial Intelligence

LDRP Institute of Technology and Research, Gandhinagar, India — May 2025
Bachelor of Engineering in Computer Engineering, Grade Point Average: 8.41/10.0

TECHNICAL SKILLS

Languages: Python, React, JavaScript
Deep Learning: TensorFlow, PyTorch, Keras, CUDA
Computer Vision: OpenCV, Albumentations
Data Science: NumPy, Pandas, Matplotlib
Web: Flask, Node.js, React.js
Cloud: Amazon Web Services, Docker, Git
Concepts: Deep Learning, Transformers, Reinforcement Learning, Agile

PROFESSIONAL EXPERIENCE

BigCircle (UPSAAS Technologies LLP), Gandhinagar, India
Artificial Intelligence Engineer — March 2025 – August 2025

- Architected multi-agent Application Programming Interface system using distributed computing, reducing report generation from 20 to 5 minutes for 10,000+ queries
- Engineered pagination and authentication systems for dashboards, accelerating page load times by 80% while securing 500+ concurrent sessions
- Delivered iOS applications using React Native, increasing mobile engagement by 45% within first quarter
- Collaborated with 5-member team in Agile sprints, conducting code reviews improving quality metrics by 30%

Elsevier Journal – Biomedical Signal Processing and Control, Remote
Peer Reviewer — 2025 – Present

- Evaluated 2+ manuscripts on medical imaging for journal with Impact Factor of 4.9
- Assessed methodology rigor and statistical validity, exercising critical thinking expertise

KEY PROJECTS

Brain Tumor Segmentation using VGG16-MCA UNet — Under Review at Elsevier

- Designed Multi-Channel Attention architecture achieving 99.59% accuracy on 3,000+ FLAIR Magnetic Resonance Imaging scans
- Implemented ensemble strategy combining 3 decoder variants, improving boundary precision by 3.7%
- Processed medical imaging dataset using preprocessing pipeline, reducing noise artifacts by 65%

Skin Cancer Classification with Occlusion Handling — Accepted at IEEE

- Developed Hybrid ResNet-Vision Transformer classifier attaining 96.3% accuracy on HAM10000 dataset
- Integrated segmentation module for hair detection, enhancing classification robustness by 5.2%
- Presented research at IEEE World Conference to 200+ attendees

Reinforcement Learning Agent for TrackMania — Academic Project

- Constructed autonomous racing agent using Implicit Quantile Networks, achieving 85% track completion
- Optimized training framework reducing training time by 60%

PUBLICATIONS AND CERTIFICATIONS

Publications:

- IEEE publication on Hybrid ResNet-Vision Transformer for skin cancer classification (Presented at IEEE World Conference, 2025)
- Research on VGG16-MCA UNet for brain tumor segmentation (Under Review at Elsevier)

Certifications:

- Python for Data Science – Indian Institute of Technology Madras
- Python Data Structures – University of Michigan, Coursera