

JAI DESAI

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SUMMARY

Results-driven Machine Learning Engineer with over 2 years of freelance experience, delivering innovative AI solutions for 15+ global clients using TensorFlow and PyTorch. Specialized in computer vision, with a proven track record of building a real-time face detection system that boosted operational efficiency by 40%.

EXPERIENCE

Freelancer (2022- Present):

Developed and delivered Python-based ML models and automation tools for 15+ global clients, saving 25 hours of manual work per project while creating technical documentation for 20+ projects

Data Security Engineer- Nodsec (2024 – Present):

Enhanced data security for finance and tech clients by ensuring compliance with PII, GDPR, HIPAA, and PHI regulations in high-stake environments. Leveraged AWS security tools to protect large-scale datasets, reducing breach risks by 30% while supporting ML model deployment.

EDUCATION

Bachelor of Engineering in Computer Science (2020 - 2024)

SKILLS

- **Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-Learn, OpenCV, Transformers
- **Programming:** Python, SQL, Data Structures & Algorithms, OOP
- **Deployment:** Flask, RESTful APIs, AWS (S3, SageMaker), MLflow, Docker
- **Mathematics:** Linear Algebra, Calculus, Probability, Statistics
- **Soft Skills:** Problem-Solving, Collaboration, Technical Writing

PROJECTS

Real-Time Face Detection Attendance System:

- Built a real-time face recognition system using CNNs and OpenCV, achieving 92% accuracy on 100 faces and cutting manual attendance time by 40%
- Technologies: Python, TensorFlow, Keras, OpenCV, AWS, Flask, MySQL.

Sentiment Analysis Dashboard with BERT:

- Built a dashboard using BERT and PyTorch to classify sentiment on 50,000+ social media posts with 95% accuracy
- Technologies: Python, PyTorch, Hugging Face, AWS SageMaker, Flask

CERTIFICATIONS

- Data Science Machine Learning, DL, NLP Bootcamp – Udemy
- Machine Learning Specialization – DeepLearning.AI (Coursera)

PUBLICATIONS

- Face Detection System Using Convolutional Neural Networks