

# HEMANT SANJAY PATIL

Java Developer | Machine Learning Engineer | Computer Vision Specialist

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LeetCode: Top 15% (500+) • GitHub: 15+ Repos • LinkedIn

## SUMMARY

Computer Vision Engineer with 4+ years of production AI experience. Specialized in facial recognition and real-time systems. Key achievements: 95%+ accuracy in 3 ML deployments, 40% latency reduction, \$18K annual cost savings. AWS/GCP certified.

## TECHNICAL SKILLS

- **Machine Learning:** PyTorch, TensorFlow, CNN, LSTM, Transfer Learning, OpenCV, Dlib
- **Data Engineering:** Apache Spark, Kafka, ETL/ELT
- **Programming:** Python (NumPy, Pandas), SQL, Java, Spark SQL
- **Databases:** MySQL (query optimization), PostgreSQL, BigQuery
- **Framework:** SpringBoot, RestAPI

## PROFESSIONAL EXPERIENCE

<b>Technical Lead</b> TEDxDYPITPimpri, Pune, India	Jan 2024–Present
<ul style="list-style-type: none"><li>• Architected AWS infrastructure for 700+ users with 100% uptime using auto-scaling</li><li>• Developed Node.js registration system increasing sign-ups 30% (1,500+ users)</li><li>• Optimized MySQL queries reducing latency 20% through composite indexing</li><li>• Automated CI/CD pipelines cutting deployment time from 45 to 15 minutes</li></ul>	

## KEY PROJECTS

<b>Real-time Emotion Recognition</b>	Jul 2024–Feb 2025
<ul style="list-style-type: none"><li>• <b>92% accuracy</b> (20% improvement) with CNN-LSTM model on 36K+ image dataset</li><li>• <b>60% precision boost</b> via MTCNN liveness detection integration</li><li>• Maintained <b>0.7s latency</b> at 100+ concurrent users using Docker</li></ul>	
<b>Biometric Attendance System</b>	Jan 2025–Jun 2025
<ul style="list-style-type: none"><li>• <b>95% recognition accuracy</b> automating attendance for 100+ students</li><li>• <b>90% reduction</b> in administrative errors through ERP integration</li><li>• Achieved <b>400ms response</b> at 40+ users via NumPy optimization</li></ul>	
<b>Big Data Cleansing Framework</b>	Jan 2025–Jun 2025
<ul style="list-style-type: none"><li>• Processed <b>4M+ daily records</b> with 50% error reduction</li><li>• Accelerated ETL jobs 25% through Spark partition optimization</li><li>• Saved \$18K/year by eliminating manual validation processes</li></ul>	

## EDUCATION

<b>B.E. Computer Engineering</b> Dr. D. Y. Patil Institute of Technology, Pune	2021–2025 <b>CGPA:8.22/10</b>
<ul style="list-style-type: none"><li>• Thesis: "Edge-Optimized Video Processing" (IEEE published)</li><li>• <b>Leadership:</b> Vice President, Neki Club Nashik(2020-2022)</li><li>• Managed 18 community initiatives reaching 600+ residents</li><li>• Secured \$25K funding through corporate partnerships</li></ul>	