Dhanraj M. Deshmukh

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Kopargaon, Maharashtra, India

PROFESSIONAL SUMMARY

Third-year Computer Engineering student and **Patent Holder (2026)** with a focus on Deep Learning and AI Scalability. Awarded **Elite status in 4 NPTEL certifications (Top 2% Topper)**, demonstrating exceptional research rigor. Experienced in deploying end-to-end ML systems using CNN/LSTM architectures and optimized inference engines (ONNX). Proficient in high-level AI ecosystems (Anthropic Claude) and cloud infrastructure (AWS). Seeking to leverage strong mathematical foundations for the Amazon ML Summer School 2026.

TECHNICAL SKILLS & MATH FOUNDATIONS

Machine Learning: Deep Learning (CNN, LSTM), Supervised/Unsupervised, Time-Series Anomaly Detection

Frameworks & Cloud: PyTorch, LangChain, FastAPI, ONNX, Docker, AWS Foundations

Mathematical Foundations: Linear Algebra, Probability, Statistics, Calculus, Optimization Algorithms

Data & Research: SQL (Verified), Python (Pandas/NumPy), Technical Thesis Writing (Elite), Patent Docs

SELECTED MACHINE LEARNING PROJECTS

EdgeSense AI - Real-Time Predictive Maintenance Platform

Deep Learning / IoT

Developed a platform for real-time machine health monitoring using multi-modal sensor telemetry. Implemented CNN and LSTM architectures for high-precision time-series anomaly detection and optimized inference using ONNX Runtime.

Python, PyTorch, ONNX, FastAPI, WebSockets, Docker

AI-Based Plant Disease Detection System

Computer Vision

Engineered an image classification system to identify agricultural diseases with high accuracy using convolutional neural networks (CNN). Performed extensive image preprocessing and augmentation to enhance model robustness.

Python, CNN, TensorFlow/Keras, OpenCV

UVM-Based Verification - Analytical Systems Validation

Mathematical Rigor

Applied rigorous analytical thinking and data validation protocols to ensure 100% integrity in hardware-level communication. Developed complex functional coverage models, demonstrating systematic discipline in data verification.

SystemVerilog, UVM, ModelSim

EDUCATION

Bachelor of Engineering - Computer Engineering 2023 - 2027 (Expected)

Sanjivani College of Engineering, SPPU (Pune University)

CGPA: 8.02 / 10. Key Coursework: Linear Algebra, Statistics & Probability, Optimization, Discrete Math, Algorithms.

ELITE CERTIFICATIONS & ACHIEVEMENTS

Elite NPTEL Certifications - **Top 2% Topper (National Rank)**	IIT Kharagpur / Roorkee	2025-26
Patent Holder - IoT Innovation (Co-Inventor)	Indian Patent Office	2026
Anthropic AI Track: Claude Code, Claude 101, AI Fluency	Anthropic / Higher Ed Authority	2026
Honeywell Future Skills Edge: Full AI & ML Track	Honeywell	2026
Google Student Ambassador (Campus Lead)	Google	2024-25