

Komal Kumavat

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Education

R. C. Patel Institute of Technology, Shirpur – B.Tech in Electrical Engineering	November 2022 – May 2026
• GPA: 8.79/10.00 (current, through 6th semester)	
• Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Machine Learning	

Technical Skills

Programming Languages: C++, Python, JavaScript, MATLAB, SQL, HTML, CSS

Frameworks: React.js, Next.js, Django, Flask, FastAPI, Streamlit, TensorFlow, PyTorch, Scikit-learn

Tools: Git, GitHub, Linux, Postman, Jupyter Notebook, VS Code, MongoDB, NumPy, Pandas, OpenCV

Professional Experience

Machine Learning Intern – Indian Institute of Technology Ropar	May 2025 – July 2025
• Built soil classification model achieving 92% accuracy using CNNs and TensorFlow, processing 5,000+ images for smart agriculture	
• Increased crop decision accuracy by 35% through real-time data analysis pipeline serving 500+ farmers across 3 states	
• Deployed React.js platform with FastAPI backend, reducing soil analysis time from 2 hours to under 3 seconds	

Blockchain Scholar – SheFi	July 2025 – August 2025
• Selected from 1,000+ applicants for intensive Web3 development program covering smart contracts, DeFi, and dApps	
• Collaborated with 50+ global developers on decentralized applications, completing 8 hands-on blockchain projects	

Projects

Agri-Waste to Fuel Platform React.js, Flask, TensorFlow, FastAPI	Live Demo
• Developed AI platform processing 1,000+ crop waste images with 88% accuracy in fuel conversion predictions	
• Reduced waste analysis time by 75% through optimized TensorFlow models and FastAPI integration serving results in 2 seconds	
• Designed mobile-responsive React interface reaching 10+ rural regions with 98% device compatibility	

Motix AI: Predictive Maintenance System React.js, Django, MongoDB, Scikit-learn	GitHub
• Achieved 95% accuracy detecting motor faults using KNN and SVM on 10,000+ data points from industrial sensors	
• Accelerated maintenance workflows by 50% via Django REST API enabling real-time monitoring of 100+ motors	
• Built React dashboard with MongoDB backend reducing diagnostic time by 60% through automated fault visualization	

Achievements

• 3rd Place, Annam.AI Hackathon 2025 (IIT Ropar) – Competed against 200+ teams developing AI-powered agri-waste conversion system	
• Top 10 Finalist (4th), GSMA Open Gateway Hackathon – Selected from 1,800+ teams for India-focused API innovation challenge	
• National Semi-Finalist, Flipkart GRID 7.0 (2025) – Recognized among top 100 innovators solving e-commerce engineering challenges	
• Semi-Finalist, Google Girl Hackathon – Selected from 500+ participants in Silicon Engineering Path competition	
• AWS AI & ML Scholar (2025) – Awarded sponsored Udacity nanodegree, one of 500 recipients globally from 10,000+ applicants	