

# 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