

# Milav Jayeshkumar Dabgar

Engineering Educator & R&D Professional

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## Executive Summary

Engineering educator and R&D professional with **9+ years** experience spanning electronics hardware development, embedded systems, AI/ML, and full-stack software engineering. Currently pursuing **BS in Data Science from IIT Madras**. Distinguished by exceptional student mentorship enabling teams to secure **Rs. 45+ lakhs in innovation funding** (Shark Tank India, iHub Gujarat), resulting in **2 student patents**. Seeking AICTE Industry Fellowship to gain advanced industrial research experience and enhance diploma-level innovation ecosystem in Gujarat.

## Professional Experience

<b>Lecturer &amp; Innovation Leader</b> <i>Government Polytechnic, Education Department - Government of Gujarat</i>	<b>Nov 2016 – Present</b> <i>Palanpur, Gujarat</i>
<ul style="list-style-type: none"><li>Lead technical education across Programming, Embedded Systems, Circuit Design, and Entrepreneurship</li><li>Hold key positions: <b>IT Convener, SSIP Co-Convener, Training &amp; Placement Member</b></li><li>Mentored teams securing <b>Rs. 25 lakhs from Shark Tank India</b> and <b>Rs. 20 lakhs government funding</b>, resulting in <b>2 patents</b></li><li>Deployed production <b>Next.js Academic Management System</b> at <a href="http://gppalanpur.in">gppalanpur.in</a> with enterprise-grade CI/CD</li></ul>	
<b>Electronics &amp; Communication Engineer (R&amp;D)</b> <i>TEXEG India Private Limited (Japan-based Technology Firm)</i>	<b>Jul 2015 – Oct 2016</b> <i>Gandhinagar, Gujarat</i>
<ul style="list-style-type: none"><li>Led end-to-end product development for commercial embedded systems in international R&amp;D environment</li><li>Executed circuit simulation, PCB design, firmware development, and control algorithms (PID, PI, Fuzzy Logic)</li></ul>	

## Education

<b>Bachelor of Science in Data Science and Applications</b> <i>Indian Institute of Technology Madras (IIT Madras)</i>	<b>2021 – Present</b> <i>Overall CGPA: 7.07/10</i>
<ul style="list-style-type: none"><li><b>Foundation:</b> Completed (CGPA: 7.50)   <b>Programming Track:</b> Completed (CGPA: 7.19)   <b>Data Science Track:</b> In Progress (80/142 credits)</li></ul>	
<b>Master of Engineering, Communication Systems</b> <i>L.D College of Engineering, Gujarat Technological University</i>	<b>2013 – 2015</b> <i>CGPA: 8.04/10</i>
<b>Bachelor of Engineering, Electronics &amp; Communication</b> <i>Sal Institute of Technology, Gujarat Technological University</i>	<b>2009 – 2013</b> <i>CGPA: 7.28/10</i>

## Technical Expertise

<b>Programming:</b> Java, Python, JavaScript, C/C++, R, SQL	<b>Infrastructure:</b> Linux, Docker, CI/CD, Git, Self-hosted Solutions
<b>Web Development:</b> Next.js, React.js, Vue.js, Node.js, Flask	<b>Embedded Systems:</b> Microcontrollers, FPGA, PCB Design
<b>Data Science &amp; ML:</b> TensorFlow, PyTorch, Scikit-learn, Pandas	<b>Tools:</b> MATLAB, Simulink, EagleCAD, Proteus, Modbus

## Key Projects & Achievements

<b>Smart Academic Portal</b>   <i>Next.js, Docker</i>	<b>2025</b>
<ul style="list-style-type: none"><li>Production system at <a href="http://gppalanpur.in">gppalanpur.in</a> with complete institutional management, student portfolios, and multilingual content</li></ul>	
<b>Personal Blog &amp; Portfolio</b>   <i>Hugo</i>	<b>2024</b>
<ul style="list-style-type: none"><li>Self-hosted website at <a href="http://milav.in">milav.in</a> with comprehensive educational resources in English/Gujarati</li></ul>	
<b>System Threat Forecaster</b>   <i>Python, ML</i>	<b>2024</b>
<ul style="list-style-type: none"><li>Machine learning pipeline for cybersecurity threat prediction using advanced algorithms and pattern recognition</li></ul>	
<b>FPGA Image Steganography</b>   <i>FPGA, Verilog</i>	<b>2015</b>
<ul style="list-style-type: none"><li>Hardware implementation published in <a href="#">International Journal of Computer Applications</a></li></ul>	

## Certifications & Recognition

<b>NPTEL EVANGELIST</b> (2020) - Top recognition for exceptional contribution to online learning ecosystem	
<b>NPTEL DISCIPLINE STAR - Computer Science</b> (2019, 2020) - Top 1% performer nationally	
<b>Coursera Specializations:</b> Advanced Machine Learning, Deep Learning, Recommender Systems, Big Data, Data Mining	
<b>24+ NPTEL Course Completions</b> with 15 Elite Performances across AI, Data Science, and Programming domains	
<b>Student Innovation Excellence:</b> Mentored 50+ projects, Rs. 45+ lakhs funding secured, 2 patents filed	