

**Nitin Gavande**

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## Professional Experience

### Software Development Intern

*Emerging Technologies Software & Automation Solutions*

- **Project Efficiency:** Led the customization and optimization of essential software projects like **PC Assistant** and **Business Helper** using .NET and TensorFlow, achieving a 93% increase in performance and user satisfaction.
- **Collaborative Problem Solving:** Worked with senior developers to design, develop, and test new features. Successfully resolved critical bugs in Windows systems, enhancing stability and uptime.
- **Documentation and Knowledge Sharing:** Authored comprehensive technical documentation for PC Assistant, establishing a clear process guide for future developers.

### Freelance Software Developer

- **Client-Focused Solutions:** Delivered custom software solutions for 21 small business clients, enhancing workflows and receiving high client satisfaction.
  - **Finance Automation:** Built billing and payment software, streamlining financial processes and boosting client operational efficiency.
  - **B2B Optimization:** Enhanced online presence for B2B clients by implementing user-centric features that drove measurable lead generation.
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## Education

**Pune Vidyarthi Griha's College of Engineering & S.S. Dhamankar Institute of Management**

Nashik, Maharashtra

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## Technical Skills

- **Languages & Frameworks:** Python, JavaScript, TypeScript, SQL, MongoDB, Go-Lang, Swift, Ruby, Java, HTML/CSS
  - **Web Development:** React.js, Next.js, Angular with TensorFlow.js, Brain.js, Chart.js
  - **Data Science & Machine Learning:** R, Python with NumPy and Pandas, TensorFlow, Spark (basic experience)
  - **Tools:** Docker, Git, Jupyter Notebooks, VS Code
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## Projects

- **Smart SDN (2024):** Developed a custom SDN controller using OpenDaylight, incorporating zero-day attack detection, DDoS mitigation, anomaly detection, and real-time threat prediction. Achieved an 89.38% attack mitigation rate through a customized learning model.
- **Anime Eye & AI Image Generator:** Built a user-friendly web-based anime-style eye filter and an AI-powered image generation and editing tool, delivering enhanced visuals and customizable outputs (similar to Photify).
- **Emotion-Based Music Player:** Created a music player that adapts song selection based on user facial expressions, leveraging computer vision and emotion recognition.
- **Clones (Twitter, Instagram, Hulu):** Built clone applications of popular platforms (Twitter, Instagram, Hulu) to replicate real-world UI/UX and backend features, focusing on responsive design, user authentication, and data storage.
- **Self-Driving Car Simulation:** Developed a self-driving car simulation in raw JavaScript using CNNs to detect road signs and obstacles, demonstrating fundamental self-driving technology principles.