

# NIRMITI PATIL

+91 9373555212 ◊ Mumbai, Maharashtra

[nirmitipatil326@gmail.com](mailto:nirmitipatil326@gmail.com) ◊ [linkedin.com/in/nirmiti-patil](https://linkedin.com/in/nirmiti-patil) ◊ [github.com/NIRMITI18](https://github.com/NIRMITI18)

## OBJECTIVE

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Enthusiastic AI/ML and Data Analytics learner, seeking a full-time opportunity to design data-driven solutions, tackle real-world challenges, and add value through innovation and creativity.

## EDUCATION

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**Bachelor of Engineering (BE)**, Vidyavardhini's College of Engineering Technology

2021 – 2025

Major: Computer Engineering

CGPA: 7.79 (till Sem 8)

## SKILLS

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<b>Programming Languages</b>	Python, JavaScript (Node.js, Vue.js, React.js), Java, C++, TypeScript
<b>Libraries / Frameworks</b>	NumPy, Pandas, OpenCV, Camera2 API, PyTorch
<b>Data Analysis</b>	Data preprocessing, Model building & evaluation, Power BI, Matplotlib
<b>Machine Learning</b>	Model development, training, evaluation, interpretation using Python libraries
<b>Tools / Platforms</b>	Git/GitHub, Firebase Console, VS Code, Uvicorn
<b>Databases</b>	Firebase Realtime Database, ChromaDB, FAISS, Elasticsearch
<b>Soft Skills</b>	Problem-solving, Team collaboration, Adaptability, Communication, Time Management

## EXPERIENCE

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### AI Researcher Intern

Oct 2025 – Present

Syntagro (Honest Way Healthy Living Pvt. Ltd.)

Remote

- Conducting research on **Generative AI models** and **LLM-based systems** for intelligent and usable content creation.
- Working on **chatbot integration** and **web design optimization** to improve user experience and interaction.

### Project Developer

Aug 2024 – Apr 2025

Punctuations Solutions Private Limited

*Mumbai, Maharashtra*

- Built a **Multi-Modal Analyzer** using Python and OpenAI tools to process and summarize text, audio, and video content.
- Integrated **LLMs** for insight extraction and automated summarization in media-heavy workflows.
- Enhanced skills in **AI integration, data processing, and cross-modal analysis**.

## PROJECTS

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**Talent Matchmaking Engine.** Designed an AI-powered system to match professionals with client briefs based on **skills, preferences, and availability**. Implemented profile ranking, rule-based filtering, and LLM integration to deliver improved recommendation quality. (Python, FastAPI)

**Cloud Burst Prediction.** Built a machine learning model to predict cloudburst occurrences using **meteorological data, preprocessing, and classification algorithms**. Enhanced disaster preparedness with improved early-warning capability.

**Post-Discharge Agent (PDA).** Built an AI-driven healthcare assistant using **Hugging Face embeddings, ChromaDB, Gemini LLM, and Agno** for agent orchestration. Enabled automated discharge-summary retrieval and personalized follow-up guidance to improve patient support.

**Scholar Safari.** Created a gamified coding platform where students learn programming through **interactive puzzles**. Integrated a **virtual assistant for real-time guidance**, making the experience more engaging and self-paced.

## CERTIFICATIONS

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- **Data Analytics Certificate (Grade B)** Capgemini Student Transformation Program, ICT Academy (2025). Gained hands-on experience in **data preprocessing, visualization using Power BI, and model evaluation**, strengthening data-driven decision-making skills.
- **Application Development using Fire Bird V Robot** Internship (10 Days) – Vidyavardhini's College of Engineering and Technology, in association with IETE Mumbai Centre (2022). Learned fundamentals of **embedded systems, robotics, and application development**, working with the Fire Bird V robot to design and test real-time applications.

## LEADERSHIP & INVOLVEMENT

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### WEBXVCET Member

Jan 2023 – Feb 2025

Vidyavardhini's College of Engineering and Technology, Vasai

- Led a community of 50+ members focused on Web 3.0 technologies.
- Organized workshops and events to promote blockchain and decentralized web.
- Mentored students in emerging technologies, fostering collaboration.

### ABACUS – Creative Head

Aug 2022 – Oct 2024

Vidyavardhini's College of Engineering and Technology, Vasai

- Coordinated and managed technical events and workshops.
- Planned, executed, and evaluated academic and technical events with team collaboration.
- Strengthened creative leadership and organizational skills.

### ECELL – Social Media Head

Aug 2023 – Feb 2025

Vidyavardhini's College of Engineering and Technology, Vasai

- Managed social media presence and outreach for entrepreneurship-focused initiatives.
- Boosted event participation through campaigns and promotions.
- Contributed to fostering a startup and business development ecosystem.