

**Smaranika Manish Patil**  
Bhayander East, Mumbai - 401105  
+91 7021245383  
[smaranikapatil2002@gmail.com](mailto:smaranikapatil2002@gmail.com)  
LinkedIn: [linkedin.com/in/smaranika-patil](https://www.linkedin.com/in/smaranika-patil)

## Professional Summary

---

Software Engineering graduate with hands-on experience in backend development, machine learning, and secure web application development. Skilled in Python, PHP, SQL, REST API development, and data analysis. Experienced in building AI models, IoT systems, and cybersecurity-focused applications using modern software engineering practices including debugging, version control, and SDLC.

## Education

---

<b>B.E. Information Technology</b> Theem College of Engineering, Boisar CGPI: 7.77	2022 – 2025
<b>Diploma in Information Technology</b> Government Polytechnic Mumbai Percentage: 82.42%	2019 – 2022
<b>Secondary School Certificate (SSC)</b> National English School, Kudus Percentage: 80.20%	2019

## Technical Skills

---

**Programming Languages:** Python, C, C++, Java, PHP, SQL

**Software Engineering:** Data Structures, Algorithms, Object-Oriented Programming, Debugging, SDLC, Problem Solving

**Backend Development:** PHP, REST API Development, Server-side Programming

**Web Development:** HTML, CSS, JavaScript, AJAX

**Machine Learning & Data:** TensorFlow, OpenCV, Scikit-learn, Data Analysis, Data Processing

**Databases:** MySQL, SQL Server

**Tools & Platforms:** Git, GitHub, Linux, VS Code, Arduino IDE, Microsoft Azure

## Professional Experience

---

<b>AI and Robotics Trainer</b> Creative Mind Studio (CSM)	Aug 2025 – Present
<b>IoT Intern</b> Emertxe Technologies, Bangalore	July 2024 – Sep 2024

## Projects

---

### Face Aging GAN for Missing Children Identification

Python, TensorFlow, Deep Learning

- Developed GAN model to simulate age progression of facial images.
- Trained deep learning models using facial datasets with TensorFlow.
- Implemented similarity-based identity matching for missing child identification.

### Movie Recommendation System

Python, Machine Learning, Data Analysis

- Built content-based recommendation system using pandas and scikit-learn.
- Implemented similarity algorithms to generate personalized recommendations.

### Sign Language Recognition System

Python, OpenCV, Computer Vision

- Developed real-time gesture recognition system using computer vision.
- Used OpenCV for image processing and gesture classification.

### Gas Pipeline Leakage Detection System

Arduino, IoT, Embedded Systems

- Developed gas leakage detection system using MQ sensors.
- Implemented alert mechanism for safety monitoring.

## Digital Thermometer

Arduino, Embedded Systems

- Built temperature monitoring system using LM35 sensor and Arduino.
- Displayed real-time temperature readings on LCD display.

## Certifications

---

- Microsoft Cyber Shikshaa for Educators – Cybersecurity Fundamentals (Grade B), 2025
- MS-CIT Certification – 92%
- IIT Bombay Spoken Tutorials: Linux, LaTeX, OOP, PHP, C, MySQL

## Achievements

---

- 1st Rank – Business Idea Competition, Theem Tech Fest 2025
- Presented AI-based research at THEEM 4th International Conference 2025
- 2nd Rank – Internal Hackathon, Smart India Hackathon 2024
- 1st Rank – Innovation Award for Machine Learning Project

## Technical Interests

---

- Software Development and Backend Development
- Data Analysis and Machine Learning Applications
- Web Application Security Testing
- Secure IoT System Design
- Cybersecurity Research and Threat Modeling

## Additional Information

---

**Languages:** English, Hindi, Marathi

**Hobbies:** Drawing, Sketching, Singing, Programming, Music