

# PRANALI KRISHNA GANESH

ENTC Engineer | AI/ML, WEB & Networking Enthusiast

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- <https://github.com/Pranali-tcp2tensor-99>



## PROFILE

ENTC Engineer with hands-on experience in software development, specializing in Python, AI/ML, and cloud-integrated IoT solutions. Skilled in microcontroller interfacing, networking, and building real-time applications with REST APIs.

## EDUCATION

- **BTECH-ENTC** | Vishwakarma Institute of Information Technology | Pune
- **Diploma-ENTC** | Jayawantrao Sawant Polytechnic | Pune
- **10<sup>th</sup>** | SSC | Sadhana English medium School | Pune

CGPA- **7.62/10** | **2026**  
Percentage-**86.88%** | **2023**  
Percentage-**83.20%** | **2020**

## EXPERIENCE

### ❖ Intern | PCB Design & Networking, Indian Air Force, Pune

(Apr '24 – Jun '24)

Worked in PCB Design and Networking departments focusing on circuit efficiency and secure networking. Developed and optimized PCB designs to reduce power consumption and enhance reliability. Gained hands-on experience with routers, network configurations, and secure connections. Managed front-end UI design and back-end processes for system functionality.

**Key skills:** PCB Design, Circuit Optimization, Networking, Design Thinking of UI/UX.

### ❖ Intern | SAI Test Plant Pvt Ltd, R&D Department

(Jul '22 – Aug '22)

Conducted technical presentations on EV system integration and testing frameworks. Explored EV component validation techniques to optimize battery performance and assisted in research for developing advanced automated test solutions for electric vehicles.

**Key skills:** EV Systems, Battery Validation, Testing Frameworks, Research & Development, Technical Documentation, MS Word, Presentation Skills.

## PROJECTS

- ❖ **AGRI-TECH** – Built a smart farming system using ESP32, ML neural networks, and Google Cloud with a user-friendly UI/UX.
- ❖ **Sign Language Recognition System** – Developed a real-time gesture translator using CNN and ESP32-CAM with Python and TensorFlow.
- ❖ **Logistic Regression from Scratch** – Implemented logistic regression using NumPy for binary classification without high-level ML libraries.
- ❖ **Portable Home Automation System** – Created a web-controlled appliance automation system using ESP8266 and Blynk IoT platform.
- ❖ **Social Distancing Monitoring System** – Designed a sensor-based alert system using Arduino Nano for COVID-safe distance monitoring.

## SKILLS

Category	Tools & Technologies
Programming Languages	Python, C/C++, HTML, CSS, Visual Basic
Software & Development Tools	VS Code, Platform IO, Arduino IDE, MATLAB, GitHub
Cloud & Deployment	AWS, Google Cloud Platform
Documentation & Office	Microsoft Office, Google Docs, Technical Documentation (MS Word)
Language	English – Proficient, Hindi – Native, Marathi – Fluent
Microcontroller Handling	ESP8266, ESP32, 8051 Microcontroller, Arduino UNO, Arduino NANO, Nicla Vision

## Certification & Credential

- |   |   |   |   |
|---|---|---|---|
| 1 | ISRO AI/ML in Geodata Analysis                | 6 | HTML5 CSS3 and JavaScript                 |
| 2 | Expert Python in Data Structures & Algorithms | 7 | Google Cloud Professional Cloud Architect |
| 3 | Professional Python Developer Certification   | 8 | Python & Django REST API Bootcamp         |
| 4 | Certified Python for Data Science & AI        | 9 | Master Python Web Scraping & Automation   |
| 5 | Masterclass in Prompt Engineering             |   |   |

## ACHIVEMENTS

- **Awarded a Medal and a Certification of Excellence, by the Indian Air Force** for Excellent contribution during PCB Design & Networking internship.
- **Represented institute at IMPETUS**, a prestigious national-level technical competition held at PICTE, Pune.
- **Secured 2nd rank in final year of Diploma**, recognized as a top performer in the department.

## POSITION OF RESPONSIBILITY

**Joint Head – Documentation**, IEEE Student Branch, VIIT

*Led content strategy and maintained documentation standards for technical events and publications.*

**Cultural Head & Class Representative**, Final Year, Diploma.

## KEY STRENGTHS

- Communication • Leadership • Technical Documentation • Problem-Solving • Teamwork • Adaptability