# PRITAM THOPATE

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 @pritam-t                                                              Pritam Thopate

## EXPERIENCE

❖ **Software Development Intern – Robotics & Programming| The Innovation Story**     *(June 2024 - May 2025)*

- **Developed and optimized Java-based software systems** for autonomous robots in the **FIRST Tech Challenge (FTC)**, integrating sensors, cameras, and motor controllers to enable precise navigation, real-time image processing pipelines, and automation control.
- **Led system architecture and hardware-software integration efforts**, conducting R&D to implement advanced automation features that improved accuracy, reliability and reduced execution time by **20%** in competition scenarios.

❖ **Intern – DBMS & Marketing | NE Worldwide**                                *(May 2023 - Dec 2023)*

Assisted in the design and management of db systems to ensure efficient data handling.

## SKILLS

- **Technical Proficiencies:** Java, C++, Flutter, Dart, MySQL, HTML, CSS, JavaScript, PHP, Android SDK, Arduino, Firebase, Supabase, Git, SolidWorks
- **Core Domains:** Software Development , Automation , Robotics , AI Integration , App Development
- **Currently Learning:** Data Structures & Algorithms (Java), AI agents, AI Image processing
- **Soft Skills:** Technical Leadership, Problem-Solving, Research & Development, Team Collaboration

## ACADEMIC PROJECTS

❖ **Arogya+ - AI-Powered Health Assistant App**
A Flutter-based mobile app integrating AI chatbot assistance, medicine scanning, and health profiling.
Features include **real-time symptom checking**, Google Maps-based medical service locator, and SQLite for local data storage, Firebase for dynamic data storage.
Built using **Flutter, Dart, Firebase, SQLite, and REST APIs** to deliver an interactive and scalable health solution.

❖ **ASTRA – Smart Warehouse Automation**
Built an autonomous robot capable of sorting and placing packages based on QR code data**.** A custom Flutter mobile app scans QR codes on packages. The robot processes this data and automatically places packages into their designated warehouse zones. This solution reduces manual labor, minimizes human error, and improves warehouse efficiency, reducing sorting time by 30%—making it especially impactful for small and medium businesses seeking affordable automation to streamline logistics and reduce operational costs.

## ACHIEVEMENTS

**Represented India at the International Robotics Competition –  FGC 2022, Geneva - Switzerland**

❖ **Gold Medal** – Best Robot at FIRST Global Challenge 2022, Geneva, Switzerland.
❖ **Runner-Up** – FIRST Tech Challenge India 2022.
❖ **1st Prize** – KJSIT-INTECH 2K24 for ASTRA: Smart Warehouse Automation.
❖ **2nd Place** - Snap AR Lens Hackathon: AR lens for clothing brands.
❖ **3rd Place** – Amazon Future Engineer – Careers of the Future Summit 2025.

## EDUCATION

❖ **B.E. in Computer Science Engineering**
Terna Engineering College, Navi Mumbai                                *(Aug 2023 - March 2027)*

**Current Year:** 3rd Year   ( Semester 1: 7.0 | Semester 2: 8.2 | Semester 3: 8.8 | Semester 4: 7.6)