# SARVESH CHANDRASHEKHAR VARODE

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LinkedIn | GitHub | Portfolio

## PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience building production-ready web and IoT applications using Python, Java, and React. Complementary knowledge spans Machine Learning, Android development, and embedded systems (ESP32). Delivered APIs supporting 1,000+ concurrent users at ~30 ms latency. Published ML researcher and 2× national hackathon finalist.

## EDUCATION

**Master of Computer Applications (MCA)** *2025 – Present*
*PES Modern College of Engineering, Pune | Current CGPA: 8.95 | Pursuing*

**Bachelor of Science in Computer Science** *2022 – 2025*
*Yashwantrao Mohite College of Arts, Science & Commerce, Pune | CGPA: 9.39*

**Higher Secondary Certificate (HSC – 12th)** *March 2022*
*Yashwantrao Mohite College of Arts, Science & Commerce, Pune*

**Secondary School Certificate (SSC – 10th)** *March 2020*
*Royal Roses English Medium School, Pune*

## PROFESSIONAL EXPERIENCE

**Trainee Intern** – Media Urbana Pvt. Ltd., Pune *February 2026 – Present*

- Vastra Express: Architected and shipped a full-stack laundry management platform (end-to-end order placement, real-time status tracking, and delivery management); REST APIs sustain 1,000+ concurrent sessions at ~30 ms average response time on standard networks.
- RFID & Biometric Attendance System: Engineered an ESP32-based solution integrating MFRC522 RFID and fingerprint sensors with real-time cloud dashboard logging, cutting manual attendance overhead to zero.
- Delivered web and IoT solutions within a cross-functional team, consistently hitting project milestones across both domains.

**Machine Learning Intern** – Cognifyz Technologies, Nagpur *June 2024 – July 2024*

- Cleaned and pre-processed 5,000+ record datasets using NumPy and Pandas, reducing data inconsistencies by ~30% and improving downstream model reliability.
- Designed and trained 3 supervised ML models (classification & regression) with Scikit-Learn, achieving accuracy above 85% on held-out test sets.
- Applied data mining techniques to surface actionable business insights, directly informing product recommendations for the client team.

## TECHNICAL SKILLS

**Proficient:** Python, Java, JavaScript, React, Node.js, Flask, FastAPI, REST APIs, MySQL, PostgreSQL, Git
**Familiar:** C++, PHP, Embedded C/C++, Express.js, Spring Boot, Next.js, Tailwind CSS, TensorFlow, Scikit-Learn, OpenCV, NumPy, Pandas, MongoDB, Supabase, Socket Programming, Hibernate, JDBC, Postman
**Platforms:** ESP32, MFRC522 RFID, Android (Java/XML)

## MAJOR PROJECTS

**OMNI-X – AI-Powered Hardware & Automation Platform** [GitHub] *Feb 2026 – Present | Team*
*Python, ESP32, OpenCV, Flask, Embedded C*

- Integrated ESP32 sensors with a Flask backend for real-time device automation and remote monitoring; backend sustains ~30 ms response at moderate concurrent load.
- Implemented touchless hardware control via OpenCV gesture recognition, eliminating the need for physical input peripherals.
- Designed modular backend services for device communication, data processing, and system diagnostics.

**NetScan – Network Scanning & Monitoring Tool** [GitHub] *Completed Feb 2026 | Team*
*Python, Socket Programming, Networking Protocols*

- Built a tool to detect active network devices, enumerate open ports, and flag basic vulnerabilities across local and wide-area networks.
- Implemented real-time socket-based communication for high-speed port scanning, reducing scan time over sequential probing approaches.

**FitMe – Calorie & Nutrition Tracking System** [GitHub] *Completed Jan 2026 | Team*
*Python, React, Flask, PostgreSQL*

- Built Flask REST APIs for user management, meal logging, and calorie calculation; APIs sustain 1,000+ concurrent users at ~30 ms average latency on standard networks.
- Curated a localised Indian food dataset and integrated personalised diet recommendations based on individual user health goals.
- Designed a responsive React dashboard for real-time meal tracking and nutritional insights.

**ArcSight Defence – ML-Powered Android Application** [GitHub] *Dec 2024 – Mar 2025 | Team*
*Python, Scikit-Learn, Flask, Java (Android), MySQL*

- Built an Android app recommending Indian paramilitary equipment using content-based filtering and Random Forest Regressor, achieving 85%+ recommendation accuracy.
- Deployed Flask REST APIs as the ML–Android bridge, decoupling the recommendation engine from the mobile client for independent updates.

**RestroLyze – Restaurant Analysis Android App** [GitHub] *Jul 2024 – Sep 2024 | Team*
*Python, Scikit-Learn, Flask, Java (Android), XML*

- Developed an ML-based Android app for restaurant performance ranking and gap analysis using Scikit-Learn classification models.
- Implemented Flask APIs bridging the ML backend with the Android frontend, enabling sub-second ranking responses.

## RESEARCH

**Hybrid CNN-SVM Architecture for Heart Attack Risk Classification** *Published*
Designed and evaluated a deep learning pipeline combining CNN feature extraction with an SVM classifier for medical risk prediction, demonstrating superior accuracy over standalone baselines on clinical datasets.

## NOTABLE ACHIEVEMENTS

- **1st Place** – Agentic AI Hackathon, MARS Club
- **2nd Place** – Odoo × VIT National Level Hackathon
- **4th Place** – HackSpark National Level Hackathon
- **Top 10 Finalist** – HackOverflow National Level Hackathon
- **Silver Medal** – Coding Competition, Tech-Trix 2023, Y.M. College, Pune
- **Technological Director** – Founded and established E-Cell at Y.M. College
- **ML Developer & Data Analyst** – Startup 'Krishidnya' (AgriTech, active)

## CERTIFICATIONS

- Programming Fundamentals using C – Duke University, Coursera
- Structured Programming using C – Duke University, Coursera
- Basic and Advanced C++ – Disha Institutes
- Crash Course on Python – Google, Coursera
- Python Data Structures – University of Michigan, Coursera
- Full Stack Java – Profound Edutech Pvt. Ltd.
- Databases for Developers: Foundations – Oracle
- Spring Framework for Java Development – Coursera

View all certification documents: Google Drive

## LANGUAGES

English | Hindi | Marathi