

# Ritesh Bonthalakoti

Entrepreneur | AI & Embedded Systems Engineer | Full-Stack Developer

[bonthalamadhavi1@gmail.com](mailto:bonthalamadhavi1@gmail.com) | +91 8464931322 | Visakhapatnam

**LinkedIn:** [linkedin.com/in/ritesh1908](https://www.linkedin.com/in/ritesh1908) | **GitHub:** [github.com/ritesh-1918](https://github.com/ritesh-1918) | **Portfolio:** [ritesh1918.netlify.app](https://ritesh1918.netlify.app)

## SUMMARY

---

Electronics & Communication student building at the intersection of AI, embedded hardware, and full-stack development. Experienced across 20+ internships, national hackathons, and entrepreneurship initiatives — including founding E-Cell SVPEC with IIT Bombay and ranking 120th among 4000+ in NEC 2025.

## EXPERIENCE

---

### Infosys Springboard | Intern (Springboard 6.0) Remote | Jan 2026 – Present

- Developing **Helpdesk.ai** – a B2B enterprise IT support platform with AI-powered ticket triage, DistilBERT classification, and duplicate detection for multi-tenant organisations.
- Building a 4-layer permission architecture (Master Admin, Company Admin, User, Public) with Supabase RLS and Stripe subscription integration.

### LearnDepth LLP | Project Lead & ML Mentor Remote | Mar 2026 – Present

- Leading development of **AutoML** — an end-to-end pipeline automation system that eliminates manual ML workflow steps from data preprocessing to model deployment.
- Mentoring junior developers on machine learning concepts, model evaluation, and best practices.

### PUSULA International Pvt Ltd | AI & Hardware Engineer Navi Mumbai | Jul 2025 – Present

- Contributing to AI automation solutions combining embedded hardware (ESP32), edge ML models, and IoT pipelines within a core engineering team.
- Gained hands-on experience in Robotics, RPA, and practical AI applications in industry settings.

### UptoSkills | HR Intern Remote | Jan 2026 – Present

- Conducting candidate interviews via Google Meet, managing end-to-end hiring workflows, and identifying young talent for technical and non-technical roles.

### E-Cell SVPEC & IIT Bombay | Founding Head, CA & NEC Team Lead Visakhapatnam | Jul 2025 – Feb 2026

- Founded E-Cell SVPEC in collaboration with IIT Bombay; served as Campus Ambassador and NEC 2025 Advanced Track Team Lead – achieved **120th rank** out of 4000+ registrations.
- Organised **Eureka 2025** (30+ startup teams), technical workshops, and social events to build entrepreneurship culture on campus.

### Wission Axis | Community Manager & Head of Operations Hyderabad / Vizag | Mar 2025 – Oct 2025

- Managed community growth as Community Manager (Hyderabad), then promoted to Head of Operations, Visakhapatnam.
- Organised founder-student meetups and events, driving local startup community engagement.

## PROJECTS / OPEN-SOURCE

---

### Helpdesk.ai – Enterprise IT Service Management React 19, FastAPI, DistilBERT, Supabase, Stripe, Vercel

- AI-driven helpdesk platform with neural ticket classification, NER metadata extraction, duplicate detection via cosine similarity, and Gemini-powered auto-resolution for enterprise B2B use.
- Live at [helpdeskaiv1.vercel.app](https://helpdeskaiv1.vercel.app) | API: [Hugging Face Spaces](#)

### SHEM – Smart Home Energy Manager ESP32-C6, Embedded C, Python, MQTT, PostgreSQL

- Real-time mains power monitoring IoT system with RMS computation, I2C LCD display, and cloud analytics; firmware optimisations improved measurement accuracy by 18%.

### RaceXplorer – Athlete Performance Tracker Arduino, IR Sensors, Raspberry Pi, MySQL

- IoT system measuring athlete speed, time, and calories using IR sensors; results displayed on LCD and mobile app with future AI analytics integration.

## SKILLS

---

**Languages:** C, Embedded C, Python, JavaScript/TypeScript, SQL

**AI / ML:** LLMs, Prompt Engineering, Generative AI, RAG, NLP, TensorFlow, DistilBERT, AutoML

**Hardware & Embedded:** ESP32, Arduino, Raspberry Pi, IoT, Digital Electronics, PCB Design

**Web & Full-Stack:** MERN Stack, React.js, Next.js, Node.js, FastAPI, Supabase, PostgreSQL

**Tools:** Git, GitHub, VS Code, TRAE AI, Docker, Linux, DaVinci Resolve, Adobe Photoshop

## EDUCATION

---

### Sanketika Polytechnic College

Diploma in Electronics & Communication Engineering | GPA: 9.1

AUG 2023 – APR 2026  
Visakhapatnam

### Institute of Management, Technology and Finance (MTF)

Entrepreneurship and Business Motivation | Grade: 9+

JAN 2025 – DEC 2028  
Remote

Focus: Entrepreneurship and Business Development

### Bhasker High School

Basic Sciences

Percentage: 82%

JUN 2015 – APR 2023  
Parvathipuram Manyam

## CERTIFICATIONS

---

- **AI Agents** – GeeksforGeeks Feb 2026
- **NEC Advanced Track Certificate (120th Rank)** – E-Cell, IIT Bombay Jan 2026
- **Generative AI Mastery Workshop** – NxtWave Sep 2025
- **UiPath Automation Developer** – UiPath Jun 2025
- **Responsive Web Design** – freeCodeCamp Jun 2025

## HONORS & AWARDS

---

- **1st Prize – Project Expo** with Rs. 10,000 cash prize
- **Top 1 Participant** – SPARK Program
- **State Level Buildathon** – Selected as state-level representative
- **NEC Advanced Track – 120th Rank** out of 4000+ college registrations
- **Viksit Bharat Young Leaders Dialogue 2026** – Selected by Ministry of Youth Affairs & Sports, Govt. of India
- **NASA Space Apps Challenge** – National-level participant (Oct 2025)
- **LetsUpgrade Bronze Winner | 1st Prize – Science Quiz**, SPC Yuvan 2k24

## PERSONAL INFORMATION

---

<b>Name</b>	Ritesh Bonthalakoti
<b>Date of Birth</b>	11 / 07 / 2008
<b>Location</b>	Sriharipuram, Visakhapatnam, AP
<b>Phone</b>	+91 8464931322
<b>Email</b>	<a href="mailto:bonthalamadhavi1@gmail.com">bonthalamadhavi1@gmail.com</a>
<b>Portfolio</b>	<a href="https://ritesh1918.netlify.app">ritesh1918.netlify.app</a>
<b>Instagram</b>	<a href="https://www.instagram.com/ritesh_191800">ritesh_191800</a>