

# TYforge - AI, IoT, and VFX Innovation Studio

Founded by Patil Bhau - BSc CS, IoT Expert, AI Journalist, and 3D Artist - TYforge is a multidisciplinary tech studio combining Artificial Intelligence, Internet of Things, and Visual Effects to craft intelligent, creative, and scalable solutions. With a core team of 10 professionals (expandable up to 50), we design, build, and deploy full-stack systems that merge engineering with creativity.

## Reference Projects & Websites

[TYforge Official: https://tyforge.in](https://tyforge.in)

- Central hub showcasing our AI, IoT, and 3D capabilities.

[Bappa: https://bappa-iota.vercel.app/](https://bappa-iota.vercel.app/)

- A devotional-themed website with modern UI and smooth interactions.

[SoulSpace: https://soulspace.tyforge.in/](https://soulspace.tyforge.in/)

- A creative space for relaxation, design, and digital art display.

[Product Guardian: https://productguardian.vercel.app/](https://productguardian.vercel.app/)

- AI-driven product analysis and protection system.

[Guardian App: https://guardianapp.vercel.app/](https://guardianapp.vercel.app/)

- Privacy and security web solution powered by AI.

[DRS System: https://drs.tyforge.in/](https://drs.tyforge.in/)

- Dynamic Result Management and SGPI Calculator for colleges.

[Saravana Dosa: https://saravana-dosa-luxury-restaurant.vercel.app/](https://saravana-dosa-luxury-restaurant.vercel.app/)

- Luxury restaurant website with menu showcase and booking UI.

## Types of Websites We Build

- AI-powered platforms
- E-commerce sites
- Educational systems (LMS)
- IoT dashboards
- Creative portfolios
- Contract analyzers
- Lost & Found systems

- AR/VR experiences
- Video-to-code tools
- Voice-enabled interfaces

## **AI Algorithms We Develop**

- Speech & Text AI (Whisper, TTS, LLaMA)
- Fake News Detection & Verification
- AI-driven Code Extraction from Video
- Gesture Recognition
- Contract Risk Analysis
- AI Chatbot & NLU Systems
- OCR Document Understanding
- Recommendation Systems
- Smart Surveillance AI
- Multilingual Assistant Systems

## **IoT Devices & Robotics We Build**

- Mini AI Talking Robots
- Voice-activated Assistants
- Smart Mirrors
- Gesture-based Controllers
- Smart Security Systems
- Health Monitoring IoT
- Agriculture Automation Bots
- Industrial Machine Monitors

## **Blender 3D & VFX Production**

- Character Animation (e.g., Boxy)
- Full CG & VFX Compositing
- Product Visualization
- Architectural 3D Renders
- Short Film Production
- Simulation FX (smoke, cloth, fluid)
- Cinematic Lighting (Cycles)

- Virtual Production Scenes

*TYforge combines advanced AI systems, IoT innovation, and cinematic 3D artistry - delivering intelligent, scalable, and visually stunning solutions for modern businesses.*