

## Internship Completion Certificate

This is to certify that **Shreyas Makwana** has successfully completed his internship as a **AI Software Engineer Intern** at Tilva Artsoft during the period of **May 2025 to July 2025**.

During the internship, he worked on developing SmartWebAssist, an AI-enabled system designed to assist in rapid website and web application delivery for Tilva's clients. The main objective was to automate content creation, generate reusable frontend scaffolds, and simplify deployment workflows using intelligent software techniques.

Shreyas designed and implemented a modular architecture integrating FastAPI for backend services, Redis caching for optimization, PostgreSQL for persistence, and React/TypeScript for component scaffolding. He built structured prompt templates, added post-processing rules for consistency, automated deployments with Docker and GitHub Actions, and configured monitoring dashboards with Prometheus and Grafana. He conducted extensive testing and evaluation on staging systems, achieving measurable outcomes such as a 70% reduction in manual content preparation time, 40% fewer repeated model calls through caching, and 80% faster deployment cycles.

### Skills Gained:

Natural Language Processing (NLP), FastAPI Backend Development, Redis Caching, PostgreSQL Schema Design, React/TypeScript Frontend Scaffolding, Docker Containerization, GitHub Actions CI/CD, Observability and Monitoring, Automated Testing.

We found Shreyas to be a motivated and technically skilled individual, capable of independently driving projects from design to implementation.

We wish him all the best for his future endeavours.



Arth Tilva  
CEO

Tilva Artsoft