

SOORIYA MOORTHY R

Chennai / Vellore, Tamil Nadu | 8610126937 | sooriyamoorthy0107@gmail.com

linkedin: <https://www.linkedin.com/in/sooriya-moorthy-6030b0342/> |

github: <https://github.com/sooriya-moorthy-0107> | portfolio: <https://sooriyamoorthy.ponnangai.com/>

Professional Summary

Analytical 3rd-year Software Engineering student with an 8.3 CGPA and a strong foundation in the full Software Development Life Cycle (SDLC). Focused on bridging the gap between technical execution and product strategy through expertise in Software Quality Assurance, Requirement Analysis, and Project Management. Proven leader in high-pressure environments, effectively managing cross-functional teams and large-scale campus initiatives.

Education

Vellore Institute of Technology (VIT), Vellore

Integrated M.Tech in Software Engineering

- **CGPA:** 8.3
- **Expected Graduation:** 2028

Maharishi Vidya Mandir Sr. Sec. School

- **Higher Secondary (Class XII):** 84.2% | 2022
- **Secondary School (Class X):** 72% | 2020

Technical Skills

Category	Skills
Programming	Python, Java, C++, SQL, TypeScript, HTML
Testing & QA	Manual Testing, Functional Testing, Test Case Design, End-to-End (E2E) Testing (Cypress)
Product & Project Mgmt	Software Project Management (SPM), User Experience (UX) Journey Mapping, System Architecture, Technical Writing
DevOps & Tools	Jenkins, Docker, Kubernetes, Git/SCM, MS-Excel
Web Development	React.js, Next.js, Backend Development

Academic & Technical Projects

EffortLeap – Predictive Software Effort Estimation Tool

- Developed a web-based tool using TypeScript and statistical modeling to predict task durations and software effort.
- Conducted rigorous requirement analysis and mapped user experience journeys to translate complex workflows into intuitive interfaces.

- Applied SPM principles to enhance planning accuracy by 20% through systematic estimation and risk mitigation.

Digital Fugitive – AI Search Paradigm Simulator

- Built a Python-based simulator implementing stochastic search and knowledge-based agents using Manhattan distance heuristics.
- Documented comprehensive system architecture, including detailed flowcharts and technical specifications.

CI/CD Pipeline & Kubernetes Deployment

- Architected and deployed an automated CI/CD pipeline for an Online Quiz System using Jenkins, Docker, and Kubernetes.
- Ensured reliable continuous delivery and scalable container orchestration for real-time application usage.

Hybrid Ensemble Tech Mining

- Developed a hybrid approach combining diverse **ensemble models** and advanced **machine learning techniques** to enhance the accuracy of **Software Effort Estimation (SEE)**.
- Leveraged methods like **Morphological approach** (a hybrid technique) and **fuzzy logic** to handle imprecision and uncertainty in project data, leading to more robust estimates.

Ponnangai Enterprises Billing Software

- Architected a full-stack prototype for inventory and billing management using Next.js and React.js.
- Executed extensive manual functional and smoke testing, reducing inventory tracking errors by 30%.
- Resolved critical edge-case bugs in transaction reversal logic and PDF generation systems.
- Note: This project is currently under development.

Leadership & Experience

Vice Chairperson | VIT Community Radio

- Lead executive operations and content strategy, coordinating student teams for campus-wide broadcasting.
- Managed logistics for 5+ major campus events, ensuring process transparency and strict quality standards.

Coordinator | Documentation Committee, Riviera '26

- Streamlined the documentation process and managed all technical and non-technical content delivery for the event.
- Collaborated across various committees to ensure high-quality, consistent, and accurate project documentation and technical specifications.

Outreach & Broadcasting Coordinator | GraVITas '25, VIT

- Managed outreach campaigns and real-time communication schedules for VIT's annual technical festival.
- Collaborated with developers and project leads to resolve logistical bottlenecks across technical and non-technical teams.

Accomplishments

- **InnovAct-2025 Hackathon:** Participated in the hackathon organized by the Institution's Innovation Council (IIC) at VIT, contributing to innovative technical solutions for World Entrepreneurship Day.
- **Tata Data Visualisation Simulation:** Completed a job simulation focused on empowering business through effective data insights.

- **Nestlé Nesternship:** Successfully completed the internship game and earned a certificate of participation.