# Parikshith Saraswathi

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## Summary

Hands-on developer with experience in **Python-based data pipelines**, ETL workflows, and QA automation. Skilled in building and testing software systems, working with **SQL databases**, and collaborating across teams to deliver reliable, production-ready solutions. Adept at **FastAPI**, **CI/CD** pipelines, **Linux systems**, and **open-source** technologies, with a strong foundation in **machine learning** and **backend data engineering**. Passionate about creating scalable data workflows and contributing to **innovative**, systems-driven teams.

## Work Experience

**Epicor – Prophet 21 ERP** **Bengaluru, India**

Product QA Developer *Aug 2022 - Aug 2025*

- Developed an **AI-powered automation agent** in Azure AI Studio to generate scripts from user inputs, reducing manual scripting effort and accelerating test development.
- Enhanced C#/.NET automation framework with **Selenium, NUnit, and SQL**, doubling test coverage and increasing customer satisfaction by **30%**.
- Engineered **JMeter-based performance tests**, leveraging **BeanShell scripting** to simulate dynamic workloads and integrating results with **Azure Application Insights**, enabling real-time monitoring and system performance analysis.
- Led Agile QA efforts across Project Hub, Supplier Integration, and Scheduling modules, enabling **20+** on-time deployments and a 50% reduction in bug recurrence.
- Recognized with **"Employee of the Month" (2x)** and **"Star Performer – Q2 2024"** for contributions to SaaS quality and performance.

Product Developer Intern *Jan 2022 – Jul 2022*

- Designed and deployed a **CI/CD pipeline** in Azure DevOps to automate daily builds and database upgrades, achieving zero-failure deployments.
- Worked with **MSSQL, REST APIs, and Git** to optimize data retrieval and improve cross-team collaboration in version-controlled environments.

**Vivarttana Technologies** **Bengaluru, India**

Machine Learning Intern *Aug 2021 – Sept 2021*

- Built predictive ML models to forecast COVID-19 cases across 30+ regions, achieving **95% accuracy** and supporting healthcare resource allocation.
- Created an interactive **Plotly dashboard** with Python ML libraries for geospatial visualization and policy decision-making.
- Applied **NumPy, Pandas, and Scikit-learn** for data preprocessing, feature engineering, and model evaluation, strengthening reproducibility and scalability of results.

## Projects

**Smart Manhole Management System** – *Funded by Karnataka State Council for Science and Technology*

- Developed a real-time **IoT-based** monitoring system using sensors and an ESP32 Wi-Fi module, enabling continuous tracking of manhole conditions.
- Recognized with **state-level funding** support for innovation in smart city infrastructure and public safety applications.

**Payment Gateway Integration (Spark Foundation GRIP Project)**

- Developed and deployed a **web-based donation portal** integrating **Razorpay payment gateway** for secure transaction handling.
- Built using **HTML, CSS, JavaScript**, and hosted via **GitHub Pages** to demonstrate end-to-end payment workflow.

## Education

**Purdue University,** Master of Science in Computer Science | GPA – 3.4/4 *Expected Graduation - 2027*

Related coursework – Programming language interface, Software Design, AI Safety

## Skills

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| .NET | ETL Pipeline | HTML and CSS | Python |
| Agile/Scrum | C# | JMeter | RESTful APIs |
| Azure AI Studio | Git | MySQL | Selenium |

## Hobbies

- Problem-Solving Puzzles (Sudoku, Rubik's Cube)
- Stargazing
- Simulation & VR/AR Design