

# Sarang Shelke

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## Education

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**Pune Vidyarthi Griha's College Of Engineering and Technology**

*Aug 2021 - May 2025*

Bachelor of Engineering in Artificial Intelligence and Data Science.

**Hirameki Japanese Language Classes**

Japanese Language Classes - N3 certified.

## Experience

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**Gen AI Intern**

*(Ongoing)*

Insightgen.ai

- Developed a low-code no-code platform used for generating AI based applications reducing application development time by over **70%** for non-technical users and enabling faster deployment cycles.
- Developed and integrated **8 APIs** into the platform, ensuring seamless interoperability and scalability.
- Engineered a scalable workflow engine using **LlamaIndex Workflows** for modular execution and developed a custom version of **LangFlow** for interacting with LLMs.
- Designed and optimized the backend architecture using Amazon RDS, ensuring robust data management and high performance.

**ML Research Intern**

*Jan 2024 - Mar 2024*

**PVG's COET**—Inhouse internship under Dr. Prof. M. P. Atre

- Collaborated in a team of three to **fine-tune** the **Mistral 7-B LLM** for healthcare applications.
- Developed a specialized healthcare **chatbot** focusing on cancer and neurology information.
- Created and curated **domain-specific datasets** for training and evaluation.

## Projects

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**JEMS: Job Exploration and Matching Solutions**

- Built and deployed an LLM based web application for intelligent job matching using **Docker** on **Hugging Face Spaces**, ensuring a scalable and **containerized** environment for seamless accessibility by end users.
- Developed a scraper using **BeautifulSoup** that scraped **100k+** job listings and resumes in over **90%** less time as compared to traditional methods.
- Developed API endpoints using **FastAPI** to facilitate efficient **communication** between scraping and embedding servers, ensuring real-time data processing and seamless system integration.

**Web Scraping and Data Wrangling**

- Developed a **web scraper** that gathers pricing data from popular websites and stores them efficiently in an SQL database.
- Gained experience working with packages such as **Selenium**, **Scrapy**, **Beautiful Soup** and reduced manual scraping by over **80%**.
- Overcame challenges like **IP blocks**, **proxy rotation**, and **CAPTCHA** automation, and ensured high data quality by handling null values and cleaning incorrect entries using **Numpy** and **Pandas**.

## Skills

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Python, FastAPI, Web Scraping, Web Crawling, Data Wrangling, Docker, Supabase.

## Certifications and Achievements

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- **Fundamentals of Deep Learning** — NVIDIA Deep Learning Institute.
- **Introduction to Machine Learning** — Duke University, North Carolina.
- Secured **1320/1600** in **SAT** (**93rd** Percentile) (March 2021)
- **Joint Treasurer** — College Department Association: Handled all the transactions and audits.
- **Badminton Team Captain:** Represented the college in inter-college tournaments.
- **AMCAT:** Scored 99%ile all over India.