

AKSHAY SHEGAONKAR

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Technical Skills

- **Technologies:** Python, JavaScript, Shell Script, SQL, MongoDB, Git
- **Cloud Platforms:** AWS (EC2, EKS, S3, VPC, IAM, RDS), Kubernetes, Docker
- **Tools:** Terraform, Helm, Github Workflows, Coralogix, Prometheus
- **Frameworks:** Flask, React JS

Professional Experience

Wiser Solutions, Inc., Pune, India

July 2021 - Present

Software Engineer 1

Mar 2023 - Present

- Enhanced and maintained data extraction platform. Delivering e-commerce data to **Fortune 500 companies** that enable clients to make informed business decisions, optimize their operations, and gain competitive market insights.
- Migrated the legacy data extraction platform to **Amazon EKS**, leveraging **Kubernetes and Docker** to improve scalability and performance. Combined multiple systems into one platform that processes over **200 million** daily requests.
- Solved **AWS VPC IP** shortages by designing an **Auto Scaling Group (ASG)** for Kubernetes pods, enabling smooth deployments and better scalability.
- Optimized **CI/CD pipelines** for microservices using **GitHub Workflows**, ensuring smoother deployments and better system reliability.
- Enhanced platform monitoring by migrating existing observability and monitoring tools to **Coralogix**, improving visibility and reducing operational costs.
- Developed a solution to install telemetry agents in worker machines using **Ansible & AWX**, providing customized configurations for various teams.
- Developed multiple microservices to support the new architecture, streamlining the data extraction process and enhancing platform functionality with new API endpoints. Created an **HTTP/2** framework to bypass bot detection, increasing success rates by **95%** and cutting reliance on expensive external tools.
- Developed **50+ web scraping bots** using **Python and LXML HTML Parser** to gather location-specific data efficiently.
- Built techniques to bypass advanced bot detection techniques like **Cloudflare**, boosting success rates and saving resources.
- Designed a monitoring tool using **React JS and TypeScript**, allowing faster issue detection and resolution for web scraping bots.

Mind Code Systems, Pune, India

Aug 2020 - Feb 2021

Python Trainee

Aug 2020 - Feb 2021

- Developed a full-stack end-to-end POC for managing documents with **CRUD** functionality using **Python, Flask, and SQLAlchemy**.
- Built a file management system similar to desktop file explorers, supporting renaming, copying, and moving files using **OOP principles**.
- Helped deploy a **machine learning** model for grammar correction on **Azure** by creating **RESTful APIs** for easy access.
- Developed a user authentication and ticketing system with **role-based access** for better security and organization.

Education

DY Patil Institute of Engineering, Pune

June 2020

Bachelor of Engineering in Computer Science (SGPA of 7.91)

Pune, India

Key Projects

Portfolio Allocation | Personal Project | Github [↗](#) | Live Link [↗](#)

- Techstack: **TypeScript, React JS, Python, Flask**
- Developed a **SPA** using **React JS** where users can visualize their **Stock Portfolio Allocation** by Industry, Sector, Exchange, Country and Currency.
- The user is able to search and add stock tickers from global markets with their live prices and update their holding quantity. Stock symbol and live prices are scraped using **Flask Restful Back-End** from *TradingView.com*.

Secure Multi-Modal Summarization | Academic Project

- Techstack: **Python, NLP, NLTK**
- Used the **LexRank Algorithm** derived from **Google's PageRank Algorithm** to create a system to extract a summary of a textual document. Multiple modes of information are supported like text, audio and video.
- Publish research paper on **IJAERD Scientific Journal**. [↗](#)

Achievements

- Awarded '**Star Performer Award**' for the quarter ending **December 2023** at Wiser Solutions. [↗](#)
- Awarded '**Star Performer Award**' for the quarter ending **September 2022** at Wiser Solutions. [↗](#)
- Awarded '**Best Hack day Project (2022)**' at Wiser Solutions.
- Secured **1st rank** in district-level **Science Olympiad (2012)**.

Certifications

- **IBM**: Machine Learning with Python. [↗](#)
- **SkillUp Academy**: Foundation of Artificial Intelligence verified by NASSCOM Futureskills. [↗](#)