

Sarthak Pattnaik

Software Engineer

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🏠 <https://www.hackerrank.com/spattanaik74>

Profile

Results-oriented and innovative Software Engineer with over 2 years of experience. Skilled at translating complex technical requirements into clear, non-technical language for stakeholders. Demonstrates a strong ability to work efficiently under tight deadlines. Enthusiastic team player dedicated to driving company success, with a proven track record in rapid **MVP** design.

Skills

Python | Java | JavaScript | Sveltekit | Django | Flask | FastAPI | Django Rest Framework | MongoDB | MySQL | Docker | PostgreSQL | AWS EC2 | AWS RDS | AWS S3 | Kafka | Redis

Professional Experience

Software Engineer, Utkal Labs pvt. Ltd

05/2022 - Present

AI Drone View Service

Tech stack - Python, Django, GCP, Tensorflow, OpenCV, Docker

- Developed various models for segmentation, detection, and classification using YOLO.
- Fine-tuned models with various hyper-parameters to achieve better **accuracy**.
- Integrated preprocessing and post-processing techniques, significantly increasing accuracy by **80%**.
- Designed and developed an API to take images as input and return coordinates of the segmented parts.

Product Price Range Discovery Service

Tech stack - Sveltekit, Django (DRF), MongoDB, AWS EC2, Scrapy, Selenium, BeautifulSoup, LangChain

- Developed a product price range discovery service using **Django** and **Docker**, including a price scraping tool with **LLM** technology for static and dynamic websites, storing over **10,000** product details in MongoDB.
- Implemented an **authentication system** with options for standard and social media login (Google, GitHub, Facebook, Twitter), enhancing user accessibility.
- Integrated **Razorpay** for handling secure, subscription-based transactions.
- Developed APIs with **Django Rest Framework (DRF)**, implemented rate limits based on user subscription plans.
- Employed **Chart JS** for advanced data visualization, improving product insights.
- Enhanced user interaction by integrating a custom chatbot assistant utilizing an open-source **LLM** model with **RAG** architecture.

Record Label Service

Tech stack - Python, Selenium, Scrapy, BeautifulSoup, AWS RDS (MySQL), GCP VM, LangChain

- Developed an automated scraper service on **GCP VM**, designed to extract details from over **80** websites focusing on artist information.

- Established a routine artist scraper service to collect social media data for more than **4,000** artists across multiple platforms.
- Redesigned the existing codebase using superior design patterns, enhancing scraper efficiency by **70%**.
- Implemented an **LLM-based** scraper, significantly improving data accuracy by **90%**.

Image Layout Integration Service

Tech stack - Python, OpenCV, PIL, PostgreSQL

- Redesigned an existing service using **OpenCV** and **PIL** to improve overall outcomes and accuracy.
- Enhanced an algorithm to identify spaces in images for text insertion, achieving **95%** accuracy.
- Developed an algorithm capable of fitting text into designated boxes with automatic font-size adjustment.

Personal Projects

BeeWanderlust, Software Engineer

10/2023 - Present

Tech stack - Sveltekit, Django (DRF), AWS RDS (PostgreSQL), Kafka, Redis, AWS EC2, AWS S3, Docker, Nginx

- Developed modular front-end components using **SvelteKit** to improve application maintainability and flexibility.
- Implemented **CQRS Design pattern** and **Event Sourcing pattern** for better performance and scalability.
- Implemented a **kafka** and **redis** based notification system with short polling to provide real-time user updates.
- Implemented a **redis** based timeline service to enhance database load.
- Integrated **S3** as the object store for static application resources

<https://github.com/spattanaik74/bee-wanderlust> 

Education


Bachelor of Technology, Computer Science, Orissa Engineering College

2016 – 2020
Khurdha, India

Java full stack training, Kodnest

11/2020 – 08/2021
Bangalore, India

Certificates

- Java Fullstack Training
Certificate 

Hobbies

Game development | Art | Photography | Football