

SHAURYAMAN SAWAI

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🌐 [Linkedin](#)

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🔗 [Git-Hub](#)

Education

National Institute of Technology , Rourkela

B.Tech. M.Tech Dual Degree Ceramic Engineering

Sep. 2023 – May 2028

Rourkela, Odisha

B.L. Public School

CBSE , Science(PCM)

Sep. 2022 – May 2023

Solan, HP

D.A.V Public School

CBSE

Sep. 2020 – May 2021

Sundernagar, HP

Relevant Coursework

- Machine Learning (ML)
- Python
- SQL
- Power BI
- Generative AI (GenAI)
- Analytics and Consulting
- Business Research
- Statistics

Experience

Seaport AI

August 2024 – September 2024

Research and Analytics focused on SMB

Remote

- Conducted 50+ in-depth analyses on challenges faced by Small and Medium Businesses (SMBs).
- Improved 5+ strategic recommendations to: Improve business efficiency by 15-20 percent, Optimize resource allocation by 10-15 percent, Create targeted solutions for SMB growth and sustainability.
- Conducted 10+ market research studies and competitor analyses to support strategic decision-making.

Botter Solutions Pvt Ltd.

November 2024 – December 2024

GenAI Solution Developer

Remote

- Developed a PyTorch-based NLP model with a custom linear layer for domain-specific tasks, fine-tuning embeddings using Hugging Face Transformers.
- Built a text extraction pipeline processing content from 100+ PDFs and 50+ web pages, extracting and tokenizing 10,000+ sentences.
- Achieved a 15 percent improvement in semantic similarity tasks by designing a custom embedding model on a Hugging Face pretrained model.

Projects

Sentiment Analysis of Hotel-Reviews | Python , Ms Excel, libraries :- pandas, numpy, nltk, TextBlob

January 2024

- Classifies customer reviews into 3 categories: Positive, Negative, or Neutral, using a lexicon-based approach with the TextBlob library.
- Processes review data by tokenizing, removing stopwords, and lemmatizing to enhance sentiment analysis accuracy.
- Utilizes 3+ visualization methods (bar charts, word clouds, histograms) to display sentiment distribution and provide insights into customer satisfaction.

Dynamic Pricing Algorithm for the Restaurant | Django, APIs, HTML/CSS, scikit-learn, SQL

November 2024

- Produced a real-time pricing solution for the Village restaurant by integrating 2 APIs: Google Maps and WeatherMap.
- Implemented adaptive pricing, increasing prices when temperature drops below 45°F or during moderate to heavy rain/snow, and adjusting prices accordingly.
- Used an ML model to predict prices for 20+ menu items, ensuring competitiveness and real-time optimization.

Shelter Map (For Disaster Management) | Django, HTML/CSS/JS, GNN's, A* and U-Net Algo., PostgreSQL

May 2024

- Integrates data from 2+ sources (OCHA, satellite imagery) for disaster updates and emergency navigation.
- Uses 3 ML models (GNNs, A*, U-Net) for safe pathfinding and real-time incident reporting.
- Supports multiple languages, with future plans for AI-based alerts and offline functionality.

Technical Skills

Languages: Python, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Microsoft-Azure, Google Cloud Platform, Supabase

Technologies/Frameworks: Django, React, GitHub, Git-Bucket, Php

Leadership / Extracurricular

Junior Consultant

April 2024 – Present

AndC Club

NIT Rourkela

- Proposed a platform for 1000+ participants at NIT Rourkela's tech fest, ensuring seamless registration and updates.
- Won the Appreciation Prize at HackOdisha among 5000+ for an impactful, creative solution.
- Led my team to 2nd place in ML4E's 'AI' hackathon with a real-time disaster management project.