

# AMAN INDIA

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## TECHNICAL SKILLS

**Languages::** Python, Java, C++, HTML, CSS

**Specialization:** LLM's, RAG's, NLP, ML, Data Pre-Processing, Statistics, Micro Services, Databases, Data structures & Algorithm, Operating System, SDLC

**Technologies/Frameworks:** Pandas, Pytorch, TensorFlow - Keras, SckitLearn, FLASK, AWS, Azure, Mongodb, MySQL, Opensearch, Hadoop, Hive, Linux, Caching, Dockers, Kubernetes, Jenkins

## EXPERIENCE

### Yellow.ai

May 2024 – Present

Software Development Engineer - NLP team

Bengaluru, Karnataka

- POC on Prompt Automation for LLM - RAG'S: Comprehensive research over DSPY Library - [Blog Post](#).
- ML service migration from python to python3 - Worked over Test cases, Code review, APIS, and issues resolution.
- Handled service failures - Bot issues, APIs fixes, Cache issues, and other backend problems on daily basis.
- Skillset:** Python, LLM'S - RAG'S, Full Stack Development, Flask, Pandas, Microservices, Mongodb, Mysql, Opensearch, Linux, Elasticsearch, Redis, Kubernetes, Dockers, AWS, Minio and others.

### Rakuten

Jan 2023 – April 2024

Software Engineer - SixthSense Observability

Bengaluru, Karnataka

- Achieved a 98.8% reduction in system query response time, optimizing it from 2.5 seconds to 30 milliseconds by implementing Redis cache over Presto query engine, integrating Presto with Elasticsearch on Amazon S3 object storage.
- Built end-to-end Chatbot for user experience and queries using LLMs and open source pre-trained models.
- Conducted POC on Hadoop Ecosystem (Hadoop, Hive, Spark), SQL on Big Data (Hive, Trino, Drill), Real-time Processing (Kafka, Flink), Specialized Tools (Druid, RaftorX, Allexio, Hazelcast, Iceberg) - "Rudimentary understanding"
- Skillset:** Python, Full Stack Development, SpringBoot - Spring - Webflux, Vue.js, Data Engineering, Web Services, MySQL-NoSql, Linux, Elasticsearch, GraphQL and others.

## PROJECTS

**DressMeNow - Virtual Try On** | Python, Neural Network, React.js, GAN

September 2023

- Virtual Clothes try-on for e-commerce, built with React and powered by CP-Vton neural network.
- Got selected in **TOP participant out of 550+** idea submissions in Rakathon'23- A Hackathon organized by Rakuten India.

**Rice Grains Analysis** | Python, OpenCV, Image Processing

June 2023

- Rice Grains Quality with 95% + accuracy over the calculation of Grains size and color identification.
- Overcome major challenges of Noise removal, Touching grains problem(Watershed algorithm).

**Tweets Entity Extraction and Sentiment Analysis** | Python, NLP, Data Pre-processing

October 2022

- Worked over Data cleaning, Tweets language conversion using Google API and, Entity Extraction using Text Blob.
- Analysed Sentiments of Authors towards each Entity and further classification.

**Retail Visual Intelligence and analytics** | Python, Opencv, Computer vision, DNN

November 2022

- Retail Visual Intelligence software for product Matching and Analytics using shelf-captured images.
- Used transfer learning, trained ResNet-50 on Custom dataset with 95% model accuracy.

## ACHIEVEMENTS/ LEADERSHIP

- Worked over **10+** Individual Freelancing projects for International Clients.
- Microsoft** Learn Student Ambassador.
- 3\* at **Codechef**(1613 currently).
- 554 Global ranks** at codechef April Long challenge 21.
- Founder of **TYSAL** Community (Teach your skills and learn) with **200+ active members** over Globe – Conducted more than 20 live events mentoring **2000+ students** - including In-University events.

## EDUCATION

**Lovely Professional University**

June 2019 – June 2023

Bachelor's of Science in Computer Science and Engineering | CGPA - 9.0/10 | **CR - 4 consecutive semesters**

Punjab, India