

# Prasuk Jain

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## EXPERIENCE

### Xcelyst Ltd

Ai Intern

August 2023 – June 2024,

- Cleaned and pre-processed large-scale job descriptions and resumes for text similarity analysis.
- Dockerize applications and deploy them on **AWS EC2** instances, optimising the infrastructure for scalability and efficient resource management.
- Worked on a candidate-job role matching model using Jaccard Similarity, enhancing role-based recommendations and making it production-ready by using **FLASK**.

### Xcelyst Partners (Sister Company of Xcelyst Ltd)

June 2024 – Present

Data Scientist

- Scaled hiring platform to process **8M+ records** with PostgreSQL & NLP, improving recommendation accuracy by **30%** and reducing query time by **85%**.
- Fine-tuned Meta LLaMA 3.1 using SFT, QLoRA and unsloth with 4-bit quantisation, optimising model performance on domain-specific datasets.
- Built AI-driven candidate job matching models using **BM25**, embeddings, and **Flask**, **improving accuracy by 25%**.
- Led a research team of 4 to develop an **AI Interview Bot** to assess candidates via body language & expressions using computer vision techniques.
- Designed & deployed **Databricks pipelines** and **Metabase dashboards** for data insights.
- Optimized deployment & scalability using **Docker**, **AWS EC2**, and **GCP**.
- Building a **multi-agent RAG system** for smart AI trading (in progress).

## SKILLS

**Programming Languages:** Python, PostgreSQL

**Software & Tools:** AWS, Docker, GIT, MS Office, MS PowerPoint, Databricks.

**ML/AI Frameworks:** Tensorflow 2, Pytorch, OpenCV, Scikit-learn, Scikit-Image, Numpy, Pandas, Matplotlib, Seaborn, Flask, HuggingFace, OpenAI

**Key Certification:** DataBricks certified Data Engineer Associate, Image Processing with Python by Datacamp, Generative AI by Udemy.

## PROJECTS

### Custom Object Detection and Identification using Deep Learning ([Demo](#))

Apr 2023 – May 2023

- Implemented a custom object detection web app using **YOLO v5**, achieving **88% accuracy** on a dataset of 10,000 images and trained the YOLO v5 model on custom object classes.
- Utilised **Streamlit** framework for building and deploying the web app.
- Optimised YOLO v5 performance for real-time detection in diverse environments.

### MagicFace Webapp ([Code](#))

May 2023 – Ongoing

- Independently developed "Magicface" project using **Flask** framework and **machine learning** algorithms.
- Implemented facial analysis features, including gender detection, facial expression recognition, and age estimation.
- Integrated real-time filter application functionality for image enhancement and modification.

## EDUCATION

### Madhav Institute of Technology and Science, Gwalior

2020-2024

Bachelor of Technology, Artificial Intelligence and Robotics

Cumulative CGPA: 8.23/10

Core Team Member of Robotics Club and Coding Club

## ADDITIONAL

**Languages:** Fluent in English.

**Extra:** Participated in Wittyhacks 3.0 organized by Datacode and Major League Hacking (MLH)