

A highly skilled and innovative data scientist with over **4 years of experience** in diverse project endeavors across the entire data life-cycle, from meticulous data collection to seamless deployment. Specializing in harnessing the power of cutting-edge **artificial intelligence** through **Deep Learning** and **Machine Learning** models to solve complex business problems with precision and innovation. Passionate about developing scalable and efficient data solutions, with a proven track record of meticulous analysis and a problem-solving mindset.

Professional Summary

Data Scientist

Claim Genius India Pvt Ltd.

Jan 23 – Present (1.8 years)

- Led the development of a highly precise **Instance Segmentation** model using the cutting-edge YOLOv9 architecture, achieving exceptional accuracy in detecting 50 car body panels.
- Spearheaded the creation of an innovative **pipeline to automate car part curation**, leveraging the Segment Anything model (SAM) to significantly enhance speed and efficiency.
- Designed and implemented an end-to-end **data engineering** solution. Leveraged AWS Glue, Lambda, and S3 Bucket for **ETL processes** and built interactive **dashboards** using QuickSight.
- Optimized foundational **model architectures** for improved performance and overall efficiency.
- Developed and delivered a **Machine Learning**-based model for repair/replace decisions, improving accuracy over existing models by optimizing the decision-making process.
- Took ownership of designing a robust **fraud detection rule engine** to proactively identify and prevent fraudulent insurance claims, enhancing overall system integrity.

Data Scientist

InArtiGence.ai

Aug 21 - Dec 22 (1.5 Years)

- Led the implementation and **deployment** of the **research paper** on Boundary Patch Refinement for parts detection models, refining instance segmentation predictions to **enhance accuracy** and fine-tune object boundaries.
- Designed and developed an **Optical Character Recognition (OCR)** system for extracting information from driving licenses and RC books, streamlining data capture and enhancing document processing efficiency.
- **Fine-tuned the GPT** model to meet specific output requirements, playing a key role in its initial deployment and improving its performance.
- Conducted extensive **curation of car parts and damage data**, ensuring high data quality and accuracy to support various machine learning and AI applications.

Professional Projects

Vipsanna Research Institute (NGO)

Feb 2024 - Present

- Developed and deployed a cutting-edge **Retrieval-Augmented Generation (RAG)** system, functioning as an advanced chatbot for the Vipsanna Research Institute.
- Integrated sophisticated retrieval techniques to fetch **relevant information** from a comprehensive knowledge base, including **text, images, and videos**, based on user queries.
- Innovatively incorporated retrieved information into the conversational context, ensuring seamless and contextually relevant interactions.
- Utilized state-of-the-art open-source **LLM generative models** to produce coherent and informative responses, significantly enhancing user interaction and experience.

Education

BE in IT	Mumbai University	7.03 CGPA	June 2021
Scaler.com	Advance Machine Learning, Deep Learning	-	July 2022