Rushikesh Darge

Data Scientist

Over the past three years, I have actively engaged in diverse project endeavors spanning the entire data lifecycle, from meticulous data collection to seamless deployment. My expertise lies in harnessing the power of cutting-edge Deep Learning and Machine Learning models to solve complex business problems with precision and innovation.

Contacts

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Skills & Tools

Language:

Python, SQL Javascript, HTML Data Analysis:

NumPy, Pandas, MySQL, NoSQL, Excel <u>Data Visualization</u>: Matplotlib, Tableau, PowerBl, Redash

Machine Learning Algorithms:

Linear Regression, Logistic Regression, K-Means Clustering, KNN, Decision Tree, Random Forest, XGBoost,

Naive Bayes, Support Vector Machine. Deep Learning: TensorFlow, Keras, PyTorch.

<u>Deep Learning Architecture</u>: ANN, CNN, LSTM, VGG16, EfficientNet, MobileNet, Yolo-V9, U-Net, Transformers, BERT, Large Language Models (LLM), Ollama <u>Version Control</u>:

Git, GitHub, Bitbucket, DVC. Image Annotation: Labellmg, Labelme DevOps: CI/CD

Containerization (Docker)
Orchestration (Kubernetes)
Amazon Web Services (AWS)
Others: Django, Flask, ETL, OOPS,
Predictive Modeling, Statistics, GenAi,
Scrapy, Web scraping, prompt
engineering

Education & Learning

Scaler.com

Specialization course on Machine Learning, Deep learning July 2022

Bachelor's of Engineering

Information Technology at Mumbai University 7.03 CGPA June 2021

Work Experience

Data Scientist - Claim Genius India Pvt Ltd.

Jan 2023 - Present

• Engineered a highly precise Instance

- Engineered a highly precise Instance Segmentation model using the cutting-edge YOLOv9 architecture, achieving exceptional accuracy in detecting 50 car body panels.
- Devised an innovative pipeline to automate car part curation, leveraging the Segment Anything model (SAM) to significantly enhance speed and efficiency.
- Created a Key Point Detection Algorithm compliant with Automotive Recyclers Association (ARA) standards, enabling precise identification and assessment of damage to specific car body parts by detecting key points and analyzing structural integrity.
- Optimized foundational model architectures for improved performance and overall efficiency.
- Developed a stacked classification model for repair/replace decisions, surpassing the accuracy of existing deployed models by optimizing the decision-making process.
- Designed and implemented a robust fraud detection rule engine to proactively identify and prevent fraudulent insurance claims.

Data Scientist - InArtiGence.ai

Aug 2021 - Dec 2022 (1.5 Years)

- Implement and Deployed research paper of Boundary
 Patch Refinement for parts detection models, refining
 predictions made by instance segmentation to enhance
 accuracy and fine-tune the boundaries of detected
 objects.
- Designed 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, contributing significantly to its initial deployment.
- Conducted extensive curation of car parts and damage data, ensuring data quality and accuracy in support of various machine learning and Al applications.

Personal Projects

People Tracking and Counting May 2024

- Designed the system to monitor a video feed and count the number of people crossing a specific marker in different directions.
- Leveraged the YOLO deep learning model for highly efficient and precise object detection in each frame of the video
- Integrated ByteTrack Algorithm for robust tracking, ensuring consistent identification and tracking of individuals across consecutive frames.
- Due to modular nature of solution, It can be extended to variety of business problems.