

Rishav Dash

Data Scientist

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PROFILE

Data Scientist with 1.5 years of experience in building data-incentive applications. Capable of creating, developing, testing, and deploying complex applications to solve challenging business problems.

SKILLS

Programming Language (Python) • **Databases** (MySQL, MongoDB) • **RestAPI** (Fast API, Flask) • **Machine Learning** (Scikit-learn)
Deep Learning (PyTorch, Tensorflow) • **MLOps** (Docker, MLFlow, W&B, Paperspace, DVC, Terraform) • **Cloud Platforms** (AWS, Azure)
Computer Vision (Image Processing (OpenCV), Object Detection, Classification, Optical Character Recognition (OCR))
Natural Language Processing (Classification, Name Entity Recognition, Transformers, RNN, LSTM, GRU)

WORK EXPERIENCE

iNeuron.ai, Jr. Data Scientist Jan 2022 – present | Bengaluru, India

- Reduced manual tasks by implementing an **Automation solution** using Python.
- Worked as an **R&D member** to create a proof of concept on Self-driving cars, object detection with drones, and Robotic arm **took expert Lectures on MLOps and Data Science in a batch of 1000+ Students.**
- Worked on multiple in-house projects using **Natural Language Processing.**

Blueplanet (Freelance), Machine Learning Engineer Oct 2021 – Aug 2021

Project Title - Using Computer Vision to Estimate Biomass of Fish for Sustainable Food Production.

- Lead a team of **25+ engineers** for **Object Detection, Keypoint Detection** tasks.
- Worked with **stereo vision** module images.
- Implemented **Instance Segmentation** using **Detectron2 MaskRCNN ResNet 50 FPN.**

Renewsenses (Freelance), Junior Machine Learning Engineer Jun 2021 – Aug 2021

Project Title - Helping People with Visual Impairment to Easily Use Buses through Computer Vision.

- Worked on various open-source **OCRs** that are mobile compatible and tried to reduce inference time.
- Developed an **automatic image crawling** script that helped in collecting **27K images** from open-sourced videos.
- Trained a **YOLOv4 - tiny** Object Detection model for seat detection with an **mAP of 85 %** on web scrapped data. **Quantized** it to float 16 for **android** deployment.
- Data Labelling using **CVAT.**

PROJECTS

Shipment Container Vertical Text Detector Mar 2022 – Apr 2022

Tech: MLFlow, PyTorch, Github actions, Image Processing.

- Designed and Developed a web app to detect the vertical text on a moving train using a slow-motion camera.
- Trained **YoloV4** on vertical images and obtained boundaries for text extraction.
- Generated synthetic data for Vertical Text by using **Data Augmentation.**
- Trained and Inference **Paddle OCR** for Vertical text Images.
- Deployed a web app on **AWS Ec2** with cloud watch monitoring.

Deep Authenticator, POC Sep 2022 – Oct 2022

Tech: Python, NodeMcu, MongoDB, **FastApi, Docker, Azure Container Registry, Azure App Services, Terraform.**

- Designed API's **embeddings-based remote application** for a client to provide **permission-based access** to restricted areas.
- Selected **MTCNN** for face detection and **FaceNet** for Embedding generation along with MongoDB as a feature store.
- Used Fastapi as an interface for the model and checked similarly using **Cosine Similarity.**
- Implemented CI/CD in **monolith architecture** using **GitHub actions** and deployed the web application using Azure App services.

PUBLICATIONS

Estimation of Simulated Particles in Magnetron using Image Color Detection, Dec 01, 2021

IEEE

EDUCATION

Ramrao Adik Institute Of Technology, Aug 2018 – Jul 2022 | Navi Mumbai, India

Bachelor of Engineering, Electronics and Telecommunication

Cumulative GPA: **8.95/ 10**