DEEPAK NR

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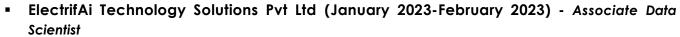


https://www.linkedin.com/in/deepak-nr/



https://deepaknr.dorik.io/

EXPERIENCE



Responsibilities:

- Engineered a self-annotation system to annotate object detection data, streamlining the process for 200k+ image data and ensuring accuracy.
- Delivered technical support to clients, resolving issues promptly, and collaborated with crossfunctional teams, achieving a 10% increase in issue resolution efficiency.
- Contributed to and actively participated in internal data science projects, bringing innovative ideas and solutions to enhance project initiatives.
- Capulus Technologies Private Limited (January 2021-September 2022) Associate Software Engineer

Responsibilities:

- Streamlined two major projects namely Automatic License Plate Recognition and Face **Recognition** and improved the inference time of the models by 20%.
- Designed and custom-trained Object detection (YOLOv4,v8)/OCR frameworks (Tesseract
- OCR/CRNN) utilizing Nvidia CUDA and CUDNN.
- Led the development and deployment of MongoDB and SQL databases in 2 projects, ensuring robust data storage and retrieval mechanisms.
- Applied Flask and FastAPI frameworks in 3+ projects.
- Transformed model performance through **ONNX** format conversion, slashing model loading time by 30% and increasing data processing speed by 20%, enhancing real-time decisionmaking capabilities.
- Executed web scraping using Selenium and Beautiful Soup in Python to compile a diverse **6GB+** dataset of text and images.
- Successfully implemented advanced object tracking algorithms, including SORT, Norfair, and Centroid tracker, in 2 distinct projects.
- Utilized OpenCV, Numpy, Scikit, and Python Image Library (PIL) for Image Processing.
- Curated and annotated 100k+ image data for training deep-learning models.
- Employed Natural Language Processing (NLT) techniques.
- Applied RabbitMQ for communication in projects.
- Leveraged **Nvidia Jetson Nano** for device implementation.
- Collaborated with product development and engineering teams to identify and prioritize critical technical issues; contributed to the successful resolution of 100+ bugs.

TECHNICAL SKILLS

- Programming in **Python and Julia**.
- Experience in using **Ubuntu and**, **Windows**.
- Having good interactions with Google Colab, Jupiter Lab, Pycharm, and VS Code.
- Experience in Programming using Object-Oriented Programming.
- Good Knowledge of Computer Vision and Deep Learning techniques.



EDUCATION

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY,

Bachelor of Engineering in Computer Science and Engineering, Visvesvaraya Technological University 7.45 CGPA, 2016-2020.

ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

- Presented "OBSTACLE DETECTION AND RECOGNITION USING CNN" in ICACI-2020.
- Volunteered for the 1st International Conference on Advances in Information Technology (ICAIT-2019).
- Wrote 5+ articles on <u>Medium</u> about deep learning, computer vision and data science, reaching a
 wide audience.
- Shared personal projects on **GitHub** to showcase coding skills and project work.

CERTIFICATION

- "Advanced Computer Vision with TensorFlow" DeepLearning.AI, Coursera.
- "Neural Networks and Deep Learning" DeepLearning.Al, Coursera.
- "Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization" DeepLearning.Al, Coursera.
- "Python (Basics)" HackerRank.