# DEEPAK NR

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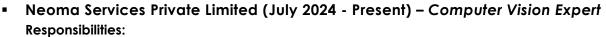
in https://www.linkedin.com/in/deepak-nr/

👤 https://nrdeepak.github.io/

## EXPERIENCE

- **Neoma Services Private Limited (July 2024 - Present) –** *Computer Vision Expert*
  **Responsibilities:**
    - Enhanced **Face Recognition** and **Truck Detection** projects by integrating **GPU/CUDA** technology, resulting in a **166%** increase in performance optimization.
    - Developed projects utilizing **Jetson Orin Nano** devices, harnessing **CUDA** to improve computational performance and successfully managed multiple RTSP streams through the use of threading techniques.
    - Contributed to and actively participated in internal data science projects, bringing innovative ideas and solutions to enhance project initiatives.

- **ElectrifAi Technology Solutions Private Limited (January 2023 - February 2023) -** *Associate Data Scientist*
  **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 cross-functional teams, achieving a 10% increase in issue resolution efficiency.

- **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 decision-making 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**.**
    - 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 **Medium** 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.AI, Coursera.
- **"Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization"** - DeepLearning.AI, Coursera.
- **"Python (Basics)"** - HackerRank.