

DEEPAK NR

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EXPERIENCE

- **ElectrifAi Technology Solutions Pvt Ltd (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.
 - 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 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 (NLP)** 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**, **Jupyter 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.