

# DEEPAK NR

+91 94492 66993 | deepaknr015@gmail.com | Bengaluru, KA, India | LinkedIn | GitHub | Portfolio | Website

## PROFESSIONAL EXPERIENCE

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### INDrone Aero Systems

Software Engineer(AI/ML)

Remote

January 2025 - July 2025

- Collaborated on the installation of WebODM using Docker, as well as data integration and service management.
- Employed image processing methods to improve drone imagery.

### Neoma Services Private Limited

Computer Vision Expert

Remote

July 2024 - November 2024

- Enhanced Face Recognition and Truck Detection projects by integrating GPU/CUDA technology, resulting in a 50% increase in performance optimisation.
- Developed projects utilising 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

Associate Data Scientists

Remote

January 2023 - February 2023

- 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 Pvt Ltd

Associate Software Engineer

Chikkamagaluru, Karnataka, India

January 2021 - September 2022

- 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 BeautifulSoup in Python to compile a diverse 6 GB+ 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.
- Collaborated with product development and engineering teams to identify and prioritise critical technical issues; contributed to the successful resolution of 100+ bugs.
- Applied RabbitMQ for communication in projects.

## PROJECTS & OUTSIDE EXPERIENCE

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Multi Language Subtitle Generation Python Based WebApp - [Link to project](#)

A Guide to Custom Training YOLOv8 for Safety Helmet Detection - [Link to project](#)

Fire and smoke detection (flask-integration) - [Link to project](#)

Pothole and Plain road images classification - [Link to project](#)

## CERTIFICATIONS

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- “Introduction to Machine Learning on AWS” – AWS, Coursera
- “Linear Algebra for Machine Learning and Data Science” - DeepLearning.AI, Coursera
- “Advanced Computer Vision with TensorFlow” - DeepLearning.AI, Coursera.
- “Neural Networks and Deep Learning” - DeepLearning.AI, Coursera.
- “Improving Deep Neural Networks: Hyperparameter Tuning, Regularisation and Optimisation” - DeepLearning.AI, Coursera.

## EDUCATION

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Adichunchanagiri Institute of Technology

Bachelor's, Computer Science

July 2016 - August 2020

GPA: 7.45

## SKILLS

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Computer Vision, Data Science, Flask, Git, Keras, MongoDB, MySQL, NumPy, Pandas, RabbitMQ, Tensorflow, Python