Narendra Kumar

Software Engineer(ML)

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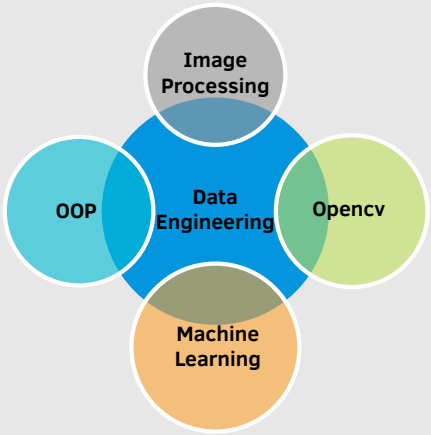
Technical Skills

Overview



Programming

$0\ LOC \longrightarrow 5000\ LOC$

Python

Computer Vision

C • C++

Education

MTech., Aerospace Engineering (GPA: 8.30)
Specialization: Aerospace Structure
Indian Institute of Technology
2015 - 2017 | Kharagpur, India

BEng., Aeronautical Engineering (First Class)
Aeronautical Society Of India
2010 - 2015 | Delhi

Experience

Jan 2018 - Present — **Python Developer Build AI Solution for Tech Startup Exponential Machines**

- Projects: Extraction of the different entity from scanned documents.
- Project involved developing microservice and making pipeline out of them to execution services.
- Worked on Platform that involves messaging architecture to communicate to microservices.
- Focused on developing machine learning models, testing.
- Experience applying machine learning and computer vision principles to real-world data and working in Scanned and Documented Images.
- Knowledge of data science technologies such as Pandas, Scipy, Numpy, matplotlib, etc.
- Computer Vision knowledge - Construction, Feature Detection, Segmentation, Classification; Machine/Deep Learning - Algorithm Evaluation, Preparation, Analysis, Modeling and Execution.

Sep 2016 - May 2017 — **Graduate Teaching Assistant** — IIT Kgp

- Teaching Assistant During M-Tech program.

Expertise

- Image Processing using Python.
- Text extraction from images.
- Python Package uses **OpenCV, Numpy, Pandas ,tesseract,ocropus**
- **Oerating system Ubuntu and IDE Pycharm**
- **Tools**: Python, scikit-learn, pandas, MongoDB, RabbitMQ, redis, JIRA

Course Certification

Dec - 2016 — **Web data analytics using Python, IIT Kharagpur** — Short Term Course

- First module includes text extraction process, pre-processing and text processing and sentiment analysis of web log file.
- Second module Web log analysis using Python that has data processing,data collection, data cleaning, and modeling of user navigation behavior.

Dec - 2016 — **Machine Learning** — Online certification from Stanford University on Coursera

- Analyzing dataset to identify kind of patterns based on their behavior. Applying machine learning methods, principal component analysis, logistic regression on the large dataset to build the predictive model. Python uses extensively for analysis and dimensional visualization.
- This course contains linear, logistic regression, classification problem, neural network, etc.

Research

2015 - 2017 — **Master's Project** — IIT Kharagpur

- Detection of Delamination in the composite beam using ultrasonic wave propagation technique. Modeling of the beam is done using FEM and code written in MATLAB.
- Detection of crack in the beam using ultrasonic wave propagation method. Modeling of the beam is done using FEM and code were written in MATLAB.