Narendra Kumar

Software Engineer(ML)

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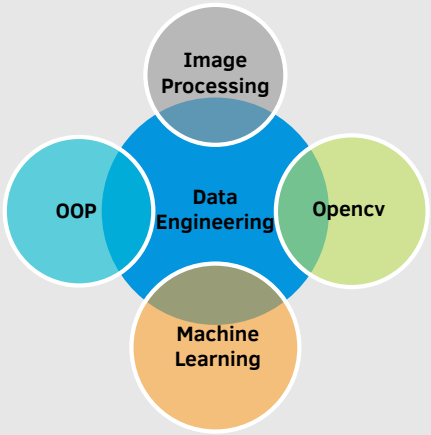
Technical Skills

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.
- Worked on Platform that involves microservice architecture.
- Working knowledge on DataBases like **Mongo, Cassandra, Hbase**
- Focused on data extraction from documents for diffrent machine learning algorithms.
- Experience in applying machine learning algorithms in computer vision, NLP.
- Computer Vision knowledge - Extensively worked on image processing using opencv framework.
- **Project :** Working in NLP team under Product Development Group. Our team takes care of finding insights in data obtained from different kind of documents like Medical Charts. Worked on following problems.
- Single-handedly developing product which finds ICD 10 code from medical reports. Doing classification modelling and entity extraction for the project using Spacy and Ctakes.
- Developed tool for summarization of text. This works nicely on news articles and research papers.

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

- Teaching Assistant During M-Tech program.

Expertise

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

Course Certification

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.