Sumith Krishna

Banglore, India | +91 9964257801 | sumithkrishnams@gmail.com

Professional Summary

- Working in the Technology Space for ***5.8 + years***. Experienced in Building MicroServices using ***Java and Python*** and taking them to production in **Agile** environment with high quality work.
- Working as a ***Machine Learning Engineer*** in designing , developing and deploying AI solutions best suited for underlying data in Computer Vision and Manufacturing.
- Research experience on ***Multi Task Learning*** and Improving the solutions based on the relevant literature

Relevant Coursework

Data Structures and Algorithms, System Design, Deep Learning, Computer Vision, Optimization, Product Architecture.

Skills

Java Related -

- Java 8, Spring Boot , Spring Data JPA , Hibernate, Spring Security , Apache Kafka, Maven, Apache Spark

Python Related -

- Python3 , Tensorflow, Scikit-learn, FastAPI, SQLAlchemy**,** Pandas, Numpy, PySpark , OpenCV

Databases -

- MySql, Postgres, Google BigQuery, Snowflake, MongoDB

Deployment Tools -

- Docker , Kubernetes, Jenkins, Linux

DL Architectures -

- Feed Forward Networks, Convolutional Neural Networks, Bi-Directional LSTM, Faster RCNN, Siamese Networks, Multi Task Learning

Work Experience - Razorthink (Bangalore, India) November 2015 - Present

Java Based

- **Model Builder** - Built A SOA Microservice for building the deep learning models on Razorthink's AI Platform. A user could just come into the platform and build the model using deep learning blocks.

  Technologies Used : Java 8, Spring Boot, Spring Data JPA, Postgres, Hazelcast, Python3, FastAPI.

- **Razorthink Billing** - Lead the Team of 2 to build billing module for the Razorthink Platform, Worked on gathering requirements , analysing, breaking down into tasks and designing the system

  Technologies Used : Java 8, Spring Boot, Spring Data JPA, Google BigQuery, Apache Kafka, Python3, FastAPI.

- **Image Builder -** Worked on Image builder module a java microservice to build docker images and push them into a docker registry.

  Technologies Used : Java 8, Spring Boot, Docker.

- **Razorthink Library -** Designed a Structure for Spring Boot Base modules and if anyone wanted to use same kind of logic they could easily extend the library

  Technologies Used : Java 8, Spring Boot

Python Based

- **Intelligent Document Processor -** Built State of the Art Solution for Image to Text Conversion, Identifying Tabular Structures in Documents and Algorithm to provide similarity score for identical documents.

  Technologies Used : Python3, Tensorflow, OpenCV, Siamese Networks, Bidirectional LSTM, Faster RCNN

- **Manufacturing Line** - Crafted State of Art solution for real-time human like defect detection in an industry assembly line which reduced their operation cost upto 80% using the Auto Encoders.

Technologies Used : Python3, Tensorflow, OpenCV, AutoEncoders

- **Research on Multi Task Learning -** which infers on breaking a problem into collinear problems which will increase the performance of a neural network.

- **Video Analytics** - Built a real time video analytics system to monitor and alert for ATM skimming using openpose and CNN's which would trigger an alarm for any fraudulent activities in the ATM. The end product as mounted on Raspberry PI

Technologies Used : Python3, Tensorflow, OpenCV, CNN's

Education

Bachelor of Engineering in Computer Science, July 2011 - Jun 2015, East West Institute of Technology, Bangalore