Manohar Palanisamy

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Summary: A machine learning Engineer passionate about cutting edge technology and solving real world problems .I am passionate about Machine learning, Deep learning, Computer Vision, Software development and Big data, which means I'll be able to be research scientist 1 years 11 months of Research and Implementation in Big data, Deep learning and Machine learning, including regression, classification, neural network, NLP and Computer Vision. Strong background in MLP, CNN, RNN, GRU, LSTM, DCGAN, SSD and experimental design using packages like Keras, TensorFlow, PyTorch, OpenCV, Distributed Keras, horovod MPI

Skills Summary:

- In Depth understanding of basic ML algorithms like Linear Regression, Logistic Regression, Knn, Naive Bayes, Decision Tree etc.
- Good understanding of Artificial Neural Networks and Autoencoders, RNN, LSTM, GRU, BRNN, CNN, Residual Net, GAN, YOLO, SSD, Keras, TensorFlow, Theano, OpenCV, PyTorch
- Good understanding of python libraries like Numpy, Matplotlib, Pandas, Scikit Learn etc.
- Good command in Big data platforms including Hadoop, MapReduce, HDFS, YARN, Hive, Pig, HBase, Sqoop, Flume, Spark, Scala, PySpark.
- Deep Coding skills in scripting and web development including Python 3,2 , Java, C, C#, JSP, Servlets, Spring Framework, HTML5, CSS3, JavaScript, Ajax, jQuery, Bootstrap3, REST API, Http Server
- Can handle Databases such as MySQL, MongoDB
- Can work on cloud and virtual platforms such as Cloudera, AWS EC2, S3 and Docker

Experience Summary:

Company	Start Date	End Date	Designation
Quantum link communications pvt. ltd	Jan 2017	Nov 2018	Software Developer
Vetri Systems	June 2016	April 2017	Developer Intern

Project Summary:

Company	Project Name	Area	Description
Quantum link communications pvt. ltd	Multiple	Deep learning, Computer Vision, Machine learning,	

		Natural Language Processing, Big data, Web Applications	
	Image Creation Using DCGAN	Deep learning, PyTorch	**Summary:** Design DCGAN Model using PyTorch and CIFAR-10 dataset to create a images from the Research paper.
	Object Detection Using SSD	Deep Learning, OpenCV, PyTorch	**Summary:** Worked in Open Source SSD model Using VOC dataset to detect the object in Videos and Photos.
	Face Recognition	OpenCV	**Summary:** To Recognize the face using Haar cascade classifier to recognize various parts of body.
	Distributed Deep Learning	Deep Learning, Horovod,Open MPI	**Summary:** Distributed ML computing and setting up servers for production using Dist-keras and Horovod MPI. 1) Horovod is a distributed training framework for Keras and TensorFlow. The goal of Horovod is to make distributed Deep Learning fast and easy to use. The primary motivation for this project was to make it easy to take a single-GPU TensorFlow program and successfully train it on many GPUs faster
		Deep learning, Apache Spark	2) Distributed Keras is a distributed deep learning framework built on top of Apache Spark and Keras, with a focus on "state-of-the-art" distributed optimization algorithms. thus, enabling a person to focus on research.
	Image Classification	Deep learning, CNN, Keras, Tensorflow	**Summary:** Trained a CNN model to predict such Quora Screenshots files and extract them out of photos directory. This involved training the model on about 1200 images and using Keras' data augmentation pipeline. Finally, the model was 94% accurate on my dataset.

	Web Scraping	Data Retrieval	**Summary:** Scrapped data from a Wikipedia page. Our final goal is to extract list of state, union territory capitals in India. And some basic detail like establishment, former capital and others form this Wikipedia page.
	Word count	Big data, Hadoop, Apache Spark, HDFS, SBT	**Summary:** Implement Word Count project using Scala and Build by SBT and running spark job across HDFS cluster with help of YARN. Use spark for handling volumes of data along with Scala, Hadoop and Spark Cluster with Multi Nodes.
	Facebook Fake Account Elimination	Web Application REST API, Java	**Summary:** This is an account deduction software used would be in Facebook, Gmail, Twitter.

Working Directory, Portfolios:

- Github/Deep learning
- linkedin

Education Summary:

Courses	Marks
Bachelor of Engineering: Computer Science and Engineering from Dhirajlal Gandhi College of Technology, Tamil Nadu in 2016	67.5
12th : Sri Gayatri Hr Sec School, 2012	80
10 th : Sri Gayatri Hr Sec School, 2010	90

Certifications:

- Computer Vision - Worked on large set of images dataset like VOC, video using OpenCV, PyTorch, Tensorflow and CNN to detect Object from Coursera 2018.
- Machine Learning- hands-on exposure to data science techniques such as machine learning, statistics and Deep learning from Coursera and Udemy 2018.
- RESTful Web Services - design REST API using Spring Boot Application from Online

Certification through Udemy held on 19 Jan,2017.

- C#.NET and SQLite - develop a phone book windows application using .Net framework on Udemy Online Course held on February 2015.
- Advanced Java - learned core concepts of java technologies from Infinite Skills Inc and Udemy Online Course held on 2016.
- Java Multithreading - learned java multithreading concepts form Udemy Online Course held on 2016.
- C and C++ Programming - learned from State Project Coordination Unit.

Awards And Recognition:

- First Prize for Code Debugging in TECHMEET- 2014 in our college.
- Participated in Technical Quiz and Project Designing in TECHMEET- 2014 in our
- college.
- Sixth Prize in the inter college Technical Quiz event SALENGG'15 on 8th Jan 2015
- Conducted by Government College of Engineering, Salem.
- Participated in Model presentation on cloud computing in our college held on 2013.
- Participated in Poster presentation on Energy day in our college held on 2013.

Additional Informations:

Languages Known : English, Tamil
Date of Birth : 15-03-1995
Hobbies : Ability to learn new Tools and Technologies rapidly, Photography.