Anand Saha

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My mission is to bring cutting edge AI research into practice as a deep learning engineer.

Highlights

- 14 years of strong industry experience in building enterprise products and services
- Good grasp on computer vision and deep learning, with auxiliary interest in nlp
- Hands on with comprehending and implementing research papers
- Hands on with effective transfer learning and optimization techniques
- Good understanding of algorithms, data structures, distributed systems

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Technologies

Languages: Proficient in C/C++, Python
Frameworks: PyTorch, Tensorflow, Keras, V-REP
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, OpenCV
Others: Multithreading, REST, AWS, OpenStack, Object Storages, SQL, Virtualization, Distributed Systems, Storage Systems

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Experience

NURTURE.AI   Dec'17-Current
NIPS paper implementation competition participant
> Implemented and validated the paper *Training Deep Networks Without Learning Rates Through Coin Betting* in PyTorch. (http://bit.ly/nips-cocob)
> Currently implementing the paper *Attentional Pooling for Action Recognition* in PyTorch.
> Participated in usability study of nurture.ai to improve their experience for researchers.

FAST.AI
International Fellow   Oct'17 - Dec'17
> Implemented the paper *Fixing Weight Decay Regularization in Adam* in the fastai library in PyTorch. (http://bit.ly/fastai-adamw)
> Had hands-on exposure to effective transfer learning, optimization techniques, use cases in computer vision and nlp.

UDACITY
ML Nanodegree Capstone   Jul'17 - Aug'17
> Ideated, designed and implemented a reinforcement learning based system to train a robotic arm to pick and place items using Q-learning. This was done in the V-REP simulation environment. (http://bit.ly/rl-capstone)

FLYTBASE
AI Engineer   Jun'17 - Sep'17

Created an image processing pipeline to extract information from high resolution aerial images, catering to uses cases like object detection and counting, in domains like wildlife conservation and inventory management. Made use of libraries like Tensorflow and various deep learning models. Helped them launch their AI platform. (http://bit.ly/oryx-detection)

LEARNING BREAK

AI Research & Engineering   Apr'17 - Current

Quit my job in March'17 to focus full time into AI and deep learning with the intention of bringing research in this area into practice. Towards that, I have been focusing on research paper study, implementation of research papers, effective ways to train models, setting up hardware for deep learning training, solving use cases using computer vision, reinforcement learning and nlp, taking online courses, sharing technical insights via my blog, contributing to open source etc. (http://teleported.in/)

VERITAS TECHNOLOGIES LLC

Principal Software Engineer   Oct'15 - Mar'17

Worked on the cloud stack of NetBackup for data backups to cloud platforms like AWS and OpenStack. Developed tools to certify new cloud providers for operability with NetBackup. Served as tech lead of the team to coordinate feature engineering activities with product owner, architects and leadership.

SYMANTEC

Principal Software Engineer   Mar'12 - Sep'15

Tech Lead, designed and implemented various features of NetBackup , including SharePoint protection, virtualized assets protection etc.

TATA COMMUNICATIONS

Senior Software Engineer   Sep'07 - Feb'12

Developer and maintainer of TATA Communications's machine learning based system to predict voice traffic patterns using linear regression. The system generates optimised dial plans for the upcoming hour, having direct impact on revenue.

GAVS TECHNOLOGIES

Software Engineer   May'03 - Aug'07

Implemented various bespoke projects spanning technologies like C/C++, .NET, WiMax and Symbian OS. In addition to software development, wrote tech proposals, presented solutions to customers, managed teams.

Course Projects (https://github.com/anandsaha)

- Predicting Boston housing price
- Finding donors for charity ML
- Clustering customers for identification
- Training a cab to drive itself
- CNN project to identify dog breed

- Solving Sudoku with AI
- Building an adversarial search agent
- Create domain independent planner
- Using HMMs to recognise ASL
- RNN time series prediction
- CV: Facial keypoint detection

Relevant Certifications

- Fast.ai deep learning course via international fellowship   Oct'17 - Dec'17

Computer Vision, Language Models, Transfer Learning and Optimization techniques
- Udacity's Machine Learning Nanodegree   Apr'17 - Jul'17
   Supervised, Unsupervised, Reinforcement, Deep Learning, Tools and Techniques
- Udacity's AI Nanodegree (Computer Vision concentration)   Apr'17 - Dec'17
   Game Playing, Search, Simulated Annealing, Constraint Satisfaction, Logic and
   Reasoning, Planning, Bayes Nets, Hidden Markov Models, Deep Learning
- Coursera Cloud Computing Specialization (part 1 to 4)   2016
   Concepts, Applications, Networking

Education

National Institute of Technology, Tiruchirappalli   1999 - 2003
   BE, Instrumentation and Control Engineering

Indian Institute of Sciences (IISc), Bangalore   Summer of 2002
   I did my 3rd year summer project here studying scheduling in Real Time Operating Systems.

Indian Institute of Technology (IIT), Bombay   Summer of 2001
   I did my 2nd year summer project here, worked on FPGA implementation of a Network
   Interface Controller for Network Printer.