

Anand Saha

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<https://www.linkedin.com/in/anandsaha/>

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

Highlights

- 14 years of industry experience in building enterprise products and services
- Currently focusing on bringing cutting edge deep learning research into the industry
- Exposure to comprehending and implementing research papers
- Hands on with effective transfer learning techniques
- Focus on computer vision, with auxiliary interest in nlp and generative models

Technologies

Languages: C/C++, Python

Frameworks: PyTorch, Tensorflow, Keras, V-REP

Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, OpenCV

Experience

NURTURE.AI

NIPS paper implementation competition participant Dec'17

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.

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>)

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 use 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. (<http://bit.ly/detect-oryx>)

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, built my own deep learning rig, took certification courses online, worked on CV and RL projects, implemented research papers, completed cs231n assignments, started writing blog, did consultancy for startup etc.

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. Had been first scrum master of my team on Veritas' transition to agile. 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
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 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
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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.