Chetan Naik

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Education

Aug 14 - May 16 **Master of Science in Computer Science** Gpa: 3.50/4.0
Stony Brook University, Stony Brook, NY.

Aug 07 - Jun 11 **Bachelor of Engineering in Electronics & Communications** Cgpa: 8.67/10.0
R. V. College of Engineering, Bangalore, India.

Work Experience

Jul 11 - May 14 **Google India** | Analyst

- Developed an ad-click spam filter which has an impact of around $1 million a month.
- Designed and developed metrics infrastructure for the global team of 50 analysts.
- Built a system to detect fraudulent publisher accounts using histogram similarity search.

Jan 15 - *present* **NLP Lab** | **Stony Brook University** | Research Assistant

As part of the Allen Institute for Artificial Intelligence's (AI2) Project Aristo, we are developing a question answering system that can recognize instances of processes.

Skills

Languages	Python, C++, C, Lua.
Scientific Software	Torch, Theano, TensorFlow, Scikits-learn, NLTK, Numpy, IPython, Pandas, Caffe.
Technologies	MapReduce, Bigtable, Dremel, ColumnIO, Protocol Buffers, Django.

Projects

Deep Learning

- **The Metis Challenge: Naive Bees Classifier - Driven Data**.
  Used Convolutional Neural Network in Theano to determine the genus of bees with 81.9%. World Rank: 28

- **Predicting facial beauty using CNN**.
  Predicted facial beauty using Convolutional Neural Network in Caffe framework and got accuracy of 51%.

- **Word embeddings for 4^{th} grade processes using skip-gram**.
  Implemented skip-gram in Torch to train word vectors for 4^{th} grade vocabulary.

- **Learning Process Embeddings**.
  Learn embeddings of processes with the goal of recognizing situations given in questions. Model processes as operators in order to predict the output of a process given its input.

Machine Learning

- **Semantic Role-based Process Knowledge Acquisition**.
  Built a system to acquire high quality process knowledge using collective role inference across sentences. This system has an F1 score of 0.72 points.

- **Predicting Super Bowl and College Football champions**.
  Forecasted 2015 Super Bowl Champions using Machine Learning techniques with 63% accuracy.

- **Predicting rating stars of Yelp reviews from review text**.
  Implemented topic models using LDA and NMF along with sentiment layers to predict the review star rating from review text with 61% accuracy.

Other Projects

- **tMood -** Developed a Pebble app at Bitcamp Hackathon that analyses the sentiment of people around user using twitter feeds and displays emoticons.

- **Neera -** A Rubik's Cube solver robot, built using LEGO Mindstorms NXT and programmed in NXC language.

Publications

Oct 15 **Semantic Role Labeling for Process Recognition Questions**.
Samuel Louvan, Chetan Naik, Veronica Lynn, Ankit Arun, Niranjan Balasubramanian, and Peter Clark.
K-CAP Scientific Knowledge Workshop 2015.

Honors and Awards

– Received 2 PQO Gold Awards at Google.
– Received Spot Bonus at Google for my work on histogram based similarity search.
– Received 10 Peer Bonuses for helping out peers by going above and beyond work requirements.

Courses

Algorithms, Operating System, Artificial Intelligence, NLP, Computer Vision, Data Science, Graph Mining, Machine Learning and Robotics.