Shubham Chandel

Computer Science Department

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EDUCATION

Indian Institute of Technology — Mandi, IN
Bachelors of Technology in Computer Science; GPA: 8.57/10 — *Aug. 2013 – June 2017*

P.K.R. Jain School — India
High School, CBSE; Percentage: 95.4% — *Aug. 2010 – May 2013*

EXPERIENCE

Amazon — Hyderabad, IN
Software Development Engineer — *July 2017 - Present*
- **Product Page Classifier**: Worked on building a classifier using attention based Long Short Term Memory (LSTM) networks to identify given any webpage is product page or not.

Udacity — Mountain View, CA
Reviewer and Mentor — *Feb. 2017 - Present*
- **Student Mentor**: Mentor and project review hundreds of students enrolled in Deep Learning and Self Driving Car Nanodegree.

Flipkart Research — Bangalore, IN
Research Internship — *June 2016 - Aug. 2016*
- **Return Reason Analysis**: Given user return reviews, extracted best set of return reason per category, identified incorrectly annotated returns and predicted correct reason for return. Used Word2Vec for feature representation, RAKE for keyword extraction, DBSCAN for vector clustering.

Indian Institute of Technology — Mandi, IN
Research and Teaching Assistant — *Feb. 2017 – June 2017*
- **Research Assistant - Machine Learning**: Research on using multiple generators and discriminators to speed-up generation process of generative adversarial networks (GAN). Multiple discriminators with varying architecture provided empirical speedup during training time. Python, PyTorch.
- **Teaching Assistant - Deep Learning**: Taught concepts of Deep Learning to undergrads and PhD students. Took classroom session explaining Google's FaceNet and Pix2Pix architecture, demonstrating the caveats involved in training, setting up cloud GPU and different deep learning library paradigms.

PROJECTS

- **Face Detection and Recognition**: Detection and recognition of human faces in context of classrooms and meetings. Used for the purpose of automating the attendance process. HOG features for detection, CNN architecture Google's FaceNet for embedding and recognition, DBSCAN for headcount. Python, Keras.
- **Reinforcement Learning playing Atari Games**: Used Deep Q-learning and Evolution Strategies to train an agent to achieve super-human performance on OpenAI's Gym environment of Atari games.
- **Home Security System**: Detecting homeowner and unlocking home using speech and face recognition.
- **File Tone Transfer Protocol**: Used audio waves to transfer text files between different machine within ear-shot distance.

LANGUAGES AND TECHNOLOGIES

Java, Python, C++, JavaScript, Lua, Scala, SQL, MATLAB, C, LaTeX

SELECTED COURSEWORK

Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning, Natural Language Processing

AWARDS

- **Amazon Machine Learning Hackathon**: Secured 1st prize among 70 teams participating across India in Nov. '17.
- **Angel Hack**: First runner-up at AngelHack Bangalore held in June '16.
- **IIT Joint Entrance Exam**: Was in top 1 percentile of total around 1,500,000 candidates.