

SHREYA JAIN

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EDUCATION

Columbia University, New York, NY

Aug. 2017 – Dec. 2018

Master of Science in Computer Science, Specialization - Machine Learning

Relevant Coursework – Machine Learning, Natural Language Processing, Deep Learning for Computer Vision

Birla Institute of Technology and Science, India

Aug. 2013 – Jul. 2017

Bachelor of Engineering (Honors) in Computer Science

Merit scholarship awarded for all semesters for excellent academic performance.

TECHNICAL SKILLS

Programming	Python, R, SQL, Tensor Flow, Keras, Java, C++, C, HTML, CSS, Javascript, Torch-Lua
Technologies	Mac, Linux, Circle CI, AWS, Git, Latex, Docker, GCP, ROS, Postman
Packages	Pandas, Scikit-Learn, OpenCV, NLTK, spaCy, Flask, Matplotlib, Gensim, Scrapy

WORK EXPERIENCE

Columbia University, New York, NY

Sep 2018 – Dec 2018

Teaching Assistant, Natural Language Processing

- Responsibilities include holding grading assignments, office hours and recitations for students.

SAP Ariba, Palo Alto, CA

Jun 2018 – Aug 2018

Machine Learning Intern - Search

- Implemented deep learning models to predict the category of product from search query giving accuracy of 87%
- Designed branched CNN with Conceptnet Numberbatch and ELMO embeddings (Keras/Tensorflow)
- Developed a web application in Flask that takes about 70ms per inference to show predictions.
- Deployed multiple versions of the model in production using Tensorflow serving and GRPC (20ms/response).

IIT Kanpur, Kanpur, IN

Jun 2016 – Dec 2016

Research Intern

- Developed Image captioning model using Convolutional and Recurrent neural networks using Torch-Lua
- Extended the Denscap model to correlate the captions of overlapping bounding boxes by predicting preposition and pass it through a LSTM to give enriched sentences as output.

PROJECTS

Snapsend

Jan 2018 – May 2018

- Developed a web app which enables sharing of images with users and downloadable in different formats and sizes
- Backend designed in Python (Flask) using MySQL as our database and front end designed in React.
- Dev, staging and production separately maintained on GCP and were updated using CI/CD (Circle CI)

Deep Fiction

Jan 2018 – May 2018

- Developed image captioning model to generate captions that captures the various aspects of the images verbally
- Implemented a RNN encoder decoder using BookCorpus dataset which maps each passage to skip thought vector
- Stylized the captions (preserve thought) to produce romantic stories for the image using this encoder decoder.

NER API and Social Network Analysis (Graduate Research)

Jan 2018 – May 2018

- Developed NER API for History Lab to tag entities from raw data from SQL server eliminating manual annotation
- Implemented Matching algorithms to verify persons names in the NER tagged data from wiki or other sources
- Generated Social networks using NetworkX, Gephi and Stata using degree centrality and other measures

Machine learning project - sentiment analysis of the US presidential candidates

Nov 2015 – Dec 2015

- Used twitter API to collect tweets and perform sentiment analysis on the US presidential candidates.
- Implemented ML algorithms to classify tweets as positive, negative or neutral using programming language R.

PUBLICATIONS

Machine Learning Model to Monitor the Progression of Parkinson's disease

Apr 2016

- Implemented predictive model to analyze the state of Parkinson's disease from the audio features of speech tests.
- Improving Accuracy in Noninvasive Telemonitoring of Progression of Parkinsons Disease using Two- Step Predictive Model was presented in EECEA, 2016. Later, it was published in IEEEXplore and Research Gate.