Akshita Bhagia

https://akshitab.github.io

Machine Learning, Deep Learning, Software Development

EDUCATION

University of Massachusetts, Amherst

Master of Science in Computer Science; GPA: 4.00/4.00

Amherst, MA

Sep 2018 - May 2020

Mobile: +1-413-404-5745

Dhirubhai Ambani Institute of Information and Communication Technology

Bachelor of Technology in Information and Communication Technology; GPA: 8.95/10

Gandhinagar, India

Jul 2011 - May 2015

Relevant courses

Machine Learning, Neural Networks, Deep Learning for NLP, Systems for Data Science, Data Structures

EXPERIENCE

Cerebellum Capital

San Francisco, CA

May 2019 - Aug 2019

Machine Learning Intern

Email: akshita23bhagia@gmail.com

- Adapted state-of-the-art deep learning models for financial time-series forecasting using Keras and Tensorflow.
- Built a comparison tool to identify discrepancies in datasets.

InFoCusp

Lead Platform Development Engineer

Research Programmer

Ahmedabad, India Feb 2018 - Jun 2018

Jul 2015 - Jan 2018

Graphical Research and Computing Environment

- Engineered the core infrastructure of a data science platform used for R&D as well as production of financial models.
- Added multi-language support (Python, Matlab, R, Julia, Markup) for defining computations.
- Implemented a parallel execution architecture for processing data-flow chains with complex inter-dependencies.

Figitizer

• Mentored an intern on a project to create editable flowcharts from flowchart images using machine learning.

Python, scikit-learn, Pytorch, Keras, Tensorflow, Git, HTML, JavaScript, C++, Mongo, MySQL, Java

Selected projects

Answering questions about Roman art history

Sep 19 - Present

Advised by: Prof. Mohit Iyyer, Prof. Eric Poehler

Working on exploring art and architecture of Pompeii (ancient Roman city) using NLP and CV techniques.

Improving crowd-sourced annotations in biomedical text (Scripps Research) Advised by: Prof. Andrew McCallum, Dr. Andrew Su (Scripps Research)

Jan 19 - May 19

Used Markov chain Monte Carlo methods to improve crowd-sourced annotations for disease and phenotype identification in bio-medical text, by modeling the bias of annotators and true labels of entities, improving NER F1-score by 8 points.

Neural Machine Translation using Structural Linguistic Information

Jan 19 - May 19

Implemented a Transformer model for German-English translation. Achieved an improvement of 1.4 BLEU score by augmenting the transformer with linguistic information (BLEU - 28.8).

Image classification of protein samples

Sep 18 - Dec 18

Built models for a multi-class, multi-label classification task to identify mixed patterns of proteins using ResNets. Accepted to the ACM Student Research Competition at Grace Hopper Conference 2019.

Positions of responsibility

- Master's chair for CSWomen UMass (Feb 2019 Present).
- o Grader for Programming with Data Structures (Fall 2018), Neural Networks (Fall 2019).

Awards and achievements

• Recipient of the AnitaB.org Grace Hopper Conference Scholarship 2019.