Akshita Bhagia

https://akshitab.github.io

Machine Learning, Natural Language Processing, Deep Learning

### EDUCATION

# University of Massachusetts, Amherst

Amherst, MA

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

Sep 2018 - May 2020

Email: abhagia@cs.umass.edu

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

Machine Learning Intern

May 2019 - Present

Working on developing deep learning models for financial time-series forecasting using Keras and Tensorflow.

# Scripps Research Institute (Remote)

Amherst, MA

Graduate Student Researcher

Jan 2019 - May 2019

Used probabilistic graphical models to improve crowd-sourced annotations for disease and phenotype identification in bio-medical text, in order to improve named entity recognition for the same.

## InFoCusp

Ahmedabad, India

• Lead Platform Development Engineer Research Programmer Feb 2018 - Jun 2018 Jul 2015 - Jan 2018

Tessearch Trogrammer

# Graphical Research and Computing Environment

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

#### Figitizer

Mentored an intern on an exploratory project to create editable, digital versions of flowcharts from images, using machine learning to detect individual components such as shapes and arrows.

# Programming Skills

- Languages: Python, Java, C++, C, HTML, JavaScript
- o Tools and libraries: Ubuntu, Git, Pytorch, Keras, Tensorflow, Sklearn

### Selected projects

## Neural Machine Translation using Structural Linguistic Information

Jan 19 - May 19

Pytorch, SpaCY, torchtext

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).

### Human Protein Atlas Image Classification

Sep 18 - Dec 18

Pytorch, Python

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

### Positions of responsibility

- Master's chair for CSWomen (Feb 2019 Present).
- o Graduate Teaching Assistant (Grader) for Programming with Data Structures at UMass (Fall 2018).
- Student Representative of the Gender Cell at DA-IICT (2014-15).

## AWARDS AND ACHIEVEMENTS

- Recipient of the Grace Hopper Conference Scholarship 2019.
- o Successfully completed a high-altitude (16000ft) Himalayan trek to Roopkund.