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

Gandhinagar, India

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

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

Feb 2018 - Jun 2018

Research Programmer

Jul 2015 - Jan 2018

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

- o Master's chair for CSWomen (Feb 2019 Present).
- 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.
- Successfully completed a high-altitude (16000ft) Himalayan trek to Roopkund.