

Akshita Bhagia

<https://akshitab.github.io>

Machine Learning, Deep Learning, Natural Language Processing

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EDUCATION

- **University of Massachusetts, Amherst** Amherst, MA
Master of Science in Computer Science; GPA: 4.00/4.00 Sep 2018 – May 2020
- **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 - Aug 2019
Worked 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 support (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 flowcharts from images using machine learning.

SKILLS

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

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 to the ACM Student Research Competition at Grace Hopper Conference 2019.

POSITIONS OF RESPONSIBILITY

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