Akshita Bhagia

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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*
- **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 flowcharts from images using machine learning.

Programming Skills

- **Languages**: Python, Java, C++, C, HTML, JavaScript
- **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 to the ACM Student Research Competition at Grace Hopper Conference 2019.

Positions of responsibility

- 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.