Akshita Bhagia

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Education

University of Massachusetts, Amherst

Amherst, MA

Master of Science (Computer Science)

Sep 2018- Expected May 2020

Relevant courses: Machine Learning, Neural Networks, Systems for Data Science.

GPA: 4.00/4.00

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)

Bachelor of Technology (Information and Communication Technology)

Relevant courses: Data structures, Algorithms, Database Management Systems.

Gandhinagar, India Jul 2011- May 2015

GPA: 8.95/10

Professional Experience

Lead Platform Development Engineer at InFoCusp Research Programmer at InFoCusp

Feb 18 – Jun 18 Jul 15 – Feb 18

In collaboration with Cerebellum Capital Inc. Graphical Research And Computing Environment (GRACE)

Jul 15 - Jun 18

- Designed and developed core infrastructure of a data science platform for research and development, as well as sharing of datasets and predictive models for financial forecasting.
- Developed a fault-tolerant data flow system which enables fetching, processing, validation and analysis of data coming from different sources with complex inter-dependencies, utilized for updating financial time-series data.
- Added multi-language support (Python, Matlab, R, Julia) to the platform for defining computations, as well as the ability for creation of reports (Markup) for performance analysis of generated data and financial strategies.

Figitizer Jan 17 – Dec 17

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.

Languages and Tools

Languages: Python, Java, C++, C, HTML, JavaScript

Tools and Databases: Pytorch, Sklearn, SVN, Git, Mongo, MySQL, Redis

Operating system: Ubuntu

Selected Projects

Human Protein Atlas Image Classification

Sep 18 - Dec 18

Build models for a multi-class, multi-label classification task to identify mixed patterns of proteins using

ResNets.

Distributed word count Sep 18 – Oct 18

Implemented MapReduce using processes and threads in Java for running distributed wordcount.

Automated Identification and Classification of Plankton Images

Jan 15 – Apr 15

Built classification models for sea-plankton images, experimenting with a Random Forest classifier using hand-crafted features, and then, Convolutional Neural Networks with processed images as input.

Legal Proposition Classification

Jan 14 - Apr 14

Built text-classification models for classifying sub-parts of sentences (called propositions) in legal documents using Support Vector Machine and Naïve Bayes classifiers, and Stanford POS and NER taggers.

Positions of responsibility

- Graduate Teaching Assistant (Grader) for COMPSCI 187 (Programming with Data Structures) at UMass (Fall 2018).
- Student Representative of the Gender Cell at DA-IICT (2014-15).

Activities and achievements

- Successfully completed a high-altitude (16000ft) Himalayan trek to Roopkund.
- Won multiple folk dance competitions at Undergraduate level.