

Curriculum Vitae  
**Chetan Kumar**  
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## EDUCATION

**Ph.D.**, Engineering and Applied Science, University of Massachusetts Dartmouth, Expected Spring 2021  
**Master of Science**, Data Science, University of Massachusetts Dartmouth, August 2018  
**Master of Science**, Computer Science, SZABIST, Karachi, June 2016  
**Bachelor of Science**, Computer Science, SZABIST, Karachi, June 2014

## PROFESSIONAL EXPERIENCE

### University of Massachusetts Dartmouth

Data Analyst, Dartmouth, MA October 2017 - May 2018

- Carried out statistical analysis on Nursing School admissions and course enrollment & results data
- JavaScript and D3 is used to visualize different patterns and trends for students performance against the courses
- These results effectively helped the school to maintain and redesign their curriculum to get most success rate
- First time a machine learning model using R language is built for this Nursing School to predict successfulness for each candidate appearing in the upcoming NCLEX-RN (Nursing License Exam)

### Web Enthusiasts

Software and Web Developer, Karachi June 2014 - October 2015

- Developed and maintained static and dynamic websites for corporate clients with responsive interfaces
- Optimized content for fast and interactive user experience with server interaction through PHP and MySQL

## RESEARCH EXPERIENCE

### Areas of Interest

Machine Intelligence and Data analytics (MIND) Lab

### UMassD Neural and Intelligent Systems Lab

Doctoral Research Assistant, Dartmouth, MA Fall 2018 – Present

- Pursuing research on on multi-view and semi-supervised learning using graph-based approaches under supervision of Dr. Ming Shao

### Publications

Papers November – 2017

- D. Kumar, C. Kumar and M. Shao “Cross-database mammographic image analysis through unsupervised domain adaptation,” To appear in IEEE International Conference on Big Data, 2017

Posters 2017 - Present

- Cross-view Action Recognition via Joint Dictionary & Transfer Learning, New England Computer Vision Workshop, Cambridge, MA, November 2018
- Cross-database Mammographic Image Analysis through Unsupervised Domain Adaptation, New England Computer Vision Workshop, Boston, MA, November 2017

## TEACHING

- Teaching assistant for CIS272: Introduction to Computing Systems, Fall 2019
- Teaching assistant for CIS280: Software Specification and Design, Spring 2019
- Teaching assistant for CIS361: Models of Computation, Spring 2019

## TECHNICAL SKILLS

- Programming languages: C/C++, Python, R, HTML, CSS, JavaScript, Matlab
- Libraries: PyTorch, NumPy, Pandas, Scikit-learn
- Databases: SQL
- Operating Systems: Windows, Linux

## SERVICE

- Reviewer for IEEE International Conference on Big Data
- Program Committee for AAAI Conference on Artificial Intelligence
- Reviewer for International Joint Conference on Artificial Intelligence (IJCAI)
- Reviewer for Journal of Electronic Imaging (JEL)