

Curriculum Vitae
Chetan Kumar
ckumar@umassd.edu
<http://chetan-kumar.com/>

EDUCATION

Bachelor of Science, Computer Science, SZABIST, Karachi, June 2014

Master of Science, Computer Science, SZABIST, Karachi, June 2016

Master of Science, Data Science, University of Massachusetts Dartmouth, August 2018

Ph.D., Engineering and Applied Science, University of Massachusetts Dartmouth, Expected Spring 2021

PROFESSIONAL EXPERIENCE

University of Massachusetts Dartmouth

Data Analyst, Dartmouth, MA

November 2017 - May 2018

- Carried out statistical analysis on Nursing School admissions and course enrollment & results data and used JavaScript and D3 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) and achieved a significant performance higher than 94%

Web Enthusiasts

Software and Web Developer, Karachi

June 2014 - October 2016

- 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 Learning and Artificial Intelligence

UMassD Neural and Intelligent Systems Lab

Doctoral Research Assistant, Dartmouth, MA

Fall 2018 – Present

- Pursuing research on cross-view action recognition and kinship verification 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 CIS280: Software Specification and Design, Spring 2018
- Teaching assistant for CIS181: Models of Computation, Spring 2018

TECHNICAL SKILLS

- Programming languages: C/C++, Python, R, JavaScript, Matlab
- Libraries: Tensorflow, NumPy, Pandas, Keras, Scikit-learn, CUDA
- Databases: SQL
- Operating Systems: Windows, Linux

SERVICE

- Reviewer for Journal of Electronic Imaging
- Reviewer for International Joint Conference on Artificial Intelligence
- Program Committee for AAAI Conference on Artificial Intelligence