NISHIT PAREKH

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EDUCATION

University of Massachusetts Amherst
Masters in Science, Computer Science
- Cumulative GPA: 4.00/4.00
- Expected Graduation: May 2018

Indian Institute of Technology, Jodhpur
Bachelor of Technology, Computer Science and Engineering
- Cumulative GPA: 9.41/10.00
- Ranked 2nd in a class of 42 students

RELEVANT COURSES

Machine Intelligence	Computer Vision, Applied Information Retrieval, Recommender Systems, Digital Image Processing, Pattern Recognition, Artificial Intelligence
Computer Science	Algorithms & Data Structures, Operating Systems, Database Systems, Distributed Systems, Computer Networks, Software Engineering, Compilers

SKILLS

Programming Languages	C++, Java, C, Python
ML/PR Tools	OpenCV, Olena, NLTK, CoreNLP
Statistical Tools	Matlab, Octave
Version Control	Git

AWARDS

Runner Up: LatentView Analytics Competition (Based on NLP for Book Reviews) — Sep 2014
Winner: IIT Jodhpur AI Challenge (Based on Ultimate Tic-Tac-Toe) — Oct 2013

RESEARCH EXPERIENCE

Laboratoire de Recherche et Développement de l'EPITA (Paris, France) — May - Jul 2015

Morphology in Color Images
- Improved text segmentation methods by extending grayscale functions into color domain.
- Enhanced segmentation of characters on difficult backgrounds like windows and metallic objects.

INDUSTRY EXPERIENCE

Mastek Incorporated (Mumbai, India) — May - Jul 2014

Virtual Dimensioning
- Implemented a pseudo-stereo vision system to measure dimensions of objects using a cell phone camera.
- Achieved a Measurement accuracy of 95% for near objects and 90% for distant objects.

Suspicious Sentiment Analyser
- Built a sentiment analyser to detect suspicious activity from social media data.
- Combined Stanford CoreNLP backend software with BRAT Rapid Annotation Tool for frontend.

ACADEMIC PROJECTS

Activity Recognition in Sports Video(Course Project - Computer Vision) — Sep - Dec 2016
- Built an SVM-based classifier to recognise player activity in videos of Volleyball matches.
- Achieved a classification accuracy of 82% by incorporating context-dependent 3-D position features.

Resource Allocation for Datacenter Frameworks (Final Year project) — Jul 2015 – May 2016
- Improved upon method proposed in [Chen'14, INFOCOMM] to allocate resources in datacenter networks.
- Extended optimal resource allocation to scenarios of multiple server failures and dynamic task addition.

Interactive Curves Explorer (Course Project - Computer Graphics) — Jul - Nov 2016
- Developed an interactive Bezier Curve and B-Spline Curve tool for educational purposes.
- Programmed with OpenGL libraries in C++, to aid students in understanding mid-level graphics code.

Library Book Sharing Application (Course Project - Computer Networks) — Jan - May 2015
- Developed a simple book-sharing application to enable library users to exchange material virtually.
- Used AVL trees to build the database, and a P2P client in Python for user interaction.

Virtual Memory Management Simulation (Course Project - Operating Systems) — Jan - May 2015
- Developed a simulator to analyse various memory page replacement techniques.

Nobel Laureate Information Extraction (Course Project - Artificial Intelligence) — Jul - Nov 2014
- Proposed semantic networks to extract information from Nobel Laureate Wikipedia pages.
- Theorised use of Named Entity Recognition (NER) to perform query analysis.