

Aswathi Radhakrishnan

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EDUCATION

Master of Science: Computer Science

University of North Carolina at Charlotte, NC, USA

2016 December

CGPA: 4.0

Academic Courses (Programming Language):

- **Machine Learning:** Naïve-Bayes, Linear Regression, Logistic Regression, Neural Networks, Dimensionality Reduction, Anomaly Detection, Recommender Systems, Reinforcement Learning, Markov Decision Process. Project: Examine a pair of paintings and determine whether they belong to the same artist (R)
- **Computer Vision:** Image processing, Hough Transform, Template Matching, Feature Extraction, Image Segmentation, Categorical/Instance Classification, Face Recognition, Video Background Subtraction. Project: Implement Optical Character Recognition using Scale Space Matching to recognize characters (MATLAB)
- **Intelligent Systems:** Uninformed/Informed strategies, Adversarial Games, Inference in FOL, Resolution, A* algorithm. Project: An unbeatable game of Tic-Tac-Toe: Minimax algorithm (Java)
- **Robot Motion Planning:** Visibility Graphs, Voronoi Roadmaps, Cell Decomposition, Collision detection, Non-holonomic Motion Planning, RRT*, Multiple Robot and Droplet Coordination. Project: Real-time motion planning around dynamic obstacles: RT-RRT* algorithm (Python)
- **Cloud Computing for Data Analysis:** Information Retrieval, PageRank, Implementation of Machine Learning algorithms on Hadoop and Spark. Project: Predict airline flight delay – distributed computing using Hadoop.
- **Algorithms & Data Structures:** Projects: Lempel-Ziv-Welch algorithm, Dijkstra's algorithm (Java)
- **Computer Networks:** Project: Link State Routing algorithm (Java)
- **Mobile Application Development:** Various apps like Pizza store, Chat application using Firebase (Android)

Bachelor of Technology: Information Technology

Cochin University of Science & Technology, India

2010 April

CGPA: 3.9

SKILLS

- Operating Systems: Windows, Linux, UNIX, OS X, Android, ROS
- Programming/Query Language(s): Java, MATLAB, R, Python, C, C++, .Net, Julia, SQL
- Database Systems: MySQL, Firebase
- Other Software/Framework/Tools: Hadoop MapReduce, Spark, Shell Script, Git, SVN, VMWare, Curl, DbVisualizer, Pygame. Exposure to REST, SOAP APIs

EMPLOYMENT

Totient Business Solutions Pvt. Ltd.

Bangalore, Karnataka, India

Test Automation Engineer

2011 Oct – 2014 Dec

- Worked extensively on Selenium RC, WebDriver and Linux shell scripting, web services testing

Cognizant Technology Solutions India Pvt. Ltd.

Coimbatore, Tamil Nadu, India

Programmer Analyst Trainee

2010 Nov – 2011 April

HONORS

- One of the top performers in Computer Vision Course Project 2016 December
- Recognized as “The Best Newcomer of the team”, Cognizant Technology Solutions 2011 April
- “The Employee of the Year”, Totient Business Solutions Pvt. Ltd. 2012 April
- The Indian Prime Minister's scholarship 2006 – 2010

RESEARCH EXPERIENCE

- **Paper(s) Presented:** “WiMAX and the issues related to power consumption on devices”, International Conference on “Recent Trends in Computational Science” (ICRTCS – 2008), 11- 13 June 2008, Cochin
- **Employee Appraisal System:** R&D department, Toc H Institute of Science & Technology. Used a fingerprint reader to track attendance.

CAMPUS INVOLVEMENT

- Established and presided over **Sun Microsystem's Open Source University Meetup (OSUM)** at Toc H Institute of Science & Technology. Conducted various technical hands-on sessions for students.