

Harsha Vardhan Reddy Illuri

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EDUCATION

Master of Computer Science, Arizona State University, Tempe, AZ

Courses: Machine Learning, Algorithm Design, Adaptive web, Distributed Database Systems, Mobile Computing

Aug 17 – May 19 (Expected)

CGPA- 3.57

Bachelor of Information Technology, Vellore Institute of Technology, Vellore, India

Courses: Cloud Computing, Web Technologies, Embedded Systems, Operating Systems, Computer Architecture

July 10 – May 14

CGPA- 7.68

EXPERIENCE

Research Assistant, W.P Carey School of Business, Arizona State University, Tempe, AZ

Feb 18 – Present

- Performed **data analysis** and augmentation at the university's center for entrepreneurship
- Developed **machine learning** models to give the projected performance of startups and **hosted a website** for founders to easily perform what-if analysis by altering their inputs
- Implemented **natural language processing** algorithms to analyze app reviews to extract features that contribute to app success
- Grader for the course 'Business Data Mining – CIS 375'

Technologies: Python, Django, sci-kit learn, keras, TensorFlow, NLTK

Software Development Engineer, Dell R&D, India

Oct 15 – July 17

- Developed **desktop applications** for thin clients enabling non-admin users to switch OS language
- Designed and developed a distributed and scalable **testing & automation framework** (web + pc), with a web interface to manage test runs and view detailed reports, reduced development and execution time by 60%.
- Led a team of 4** to develop Windows embedded custom OS images and applications to address ad-hoc requests and issues from customers
- Optimized** windows embedded image build by automating build and troubleshooting steps, slashed build time by 70%
- Researched and submitted a **patent idea** to reduce the bandwidth usage by file transfer on VM

Technologies: Python, Java, C#, C++, Selenium, Django, PowerShell, AutoIT, VMWare esxi

Associate Software Engineer, Accenture Solutions, India

Jul 14 – Oct 15

- Migrated HR management system from PeopleSoft to Oracle Fusion for an investment banking client
- Extensive experience in Unix servers, Linux cloud database systems, ETL, business intelligence tools

TECHNICAL SKILLS

Programming

Python, Java, C#, C, C++, PowerShell, Scala

Web

Django, JavaScript, Node JS, jQuery, Ajax, PHP, REST

Databases

MySQL, MongoDB, PostgreSQL, Apache Spark, Hadoop and Informatica

OS & IDE

Windows, Linux, MacOS, Unix, Visual Studio, IntelliJ, PyCharm, Eclipse, Spyder

Others

keras, Tensor Flow, AWS, Android, Selenium, Pandas, Numpy, SciPy and GIT

PROJECTS

TravelSafe with Amazon Alexa – Gives highway safety information based on GPS location and fatal accident dataset obtained from NHTS. Used machine learning (logistic regression) for classification of safety rating.

Restaurant success predictor – Used a combination of machine learning and deep learning algorithms and adaptive boosting on Yelp data to predict the probability of a restaurant being successful with 80% accuracy.

Adaptive note recommendation system - Smart web app that adapts to user interests and proactively recommends relevant notes. Used open social user model, content and collaborative filtering, machine learning, natural language processing to extract and identify phrases and importance from text

Geospatial queries on NYC cab data – Performed optimized geospatial HotCell and HotZone analysis on a huge dataset of NYC yellow cabs using Hadoop HDFS and Apache Spark

Personalized activity detection app for Android – developed an app that uses support vector machine to tell what activity you are performing like running and walking. Used LIBSVM library to train the model and use it on the mobile device

AWARDS & ACHIEVEMENTS

- Winner of a hackathon** with over 70 teams for an Alexa skill designed for cars to give road safety info
- Dell Champion Award** for innovation and year-round performance
- Winner of **Dell Wyse Avishkaar (innovation) Award** for the year 2016
- Received **four Dell silver awards** for Quarterly performance