N Hari Prasad
Curriculum Vitae

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Education

- Pursuing a Bachelors degree (currently 3rd year) in *Computer Science and Engineering* from BITS Pilani, Pilani Campus. Current CGPA(after 4 semesters) – 9.21/10
- SBOA School and Junior College, Chennai – Class 12: 95% Class 10: 94.4%

Achievements

- **Merit Scholarship** Received Merit Scholarship by BITS Pilani for securing top 1% CGPA at the end of first year
- **KVPY Scholarship** Shortlisted for KVPY Scholarship awarded by Department of Science and Technology, Government of India.
- **Olympiads** Selected as one among 300 Nationwide in Indian National Chemistry Olympiad(INChO) and Indian National Physics Olympiad(INPhO)

Technical skills

- **Operating Systems** Ubuntu, Windows, Mac OS X
- **Programming Languages** C,C++,Python,MATLAB,Java,Processing,HTML,Javascript,MySQL

Online Presence

- **Blog** http://machlearner.wordpress.com
- **Github** https://github.com/redoc2010

Work Experience

June 2011 – July 2011
Summer Internship, *Intern*, Inforill Technologies, Chennai.

- **Project Quantum(A Pedestrian Simulation)** Developed an animation prototype. Used backend output data to drive the animation prototype in a web based HTML frontend using Play Framework.
- **Project Shop2Cook** Used the iPhone iOS development framework to develop modules related to JSON and XML data processing.
- **Mentor** Dr. Mohideen Noordeen, Managing Director, Inforill Technoloies

May 2012 – July 2012
Practice School, *Intern*, Scientific Information Research Division, Indira Gandhi Center for Atomic Research - Part of DAE, Kalpakkam.

- **Study** Knowledge Representation using Ontologies, tools for creating, working with Ontologies.
- **Project - Ontology Mapping** Created a JAVA Swing based GUI app to perform Ontology Mapping on Nuclear Domain Ontologies.
- **Mentors** Mrs. N. Madurai Meenachi, Scientific Officer, IGCAR ; Dr. Sai Baba, Head, Scientific Information Resource Division, IGCAR

Projects and Events

Aug 2011 – Dec 2011

Computerized Lip Reading using Fuzzy Logic.

- Used Viola Jones algorithm and Active Shape Models to extract features which are represented as Gaussian Fuzzy Numbers. Using the weighted mean method, Gaussian Fuzzy Numbers of a image are correlated with a phoneme. Used OpenCV and MATLAB.
- **Paper** titled "Computerized Lip Reading using Fuzzy Logic" presented in APOGEE 2012
- **Mentor** Prof. Shivi Agarwal, Department of Mathematics, BITS Pilani

Aug 2011 – Current

Scene Recognition in images.

- Part of Mobile Computing Group's Computer Vision Team
- Obtained metrics from scene images and used machine learning algorithms (kNN and SVM classifiers) to get a similarity measure between the images. Used OpenCV and LibSVM.

Mar 2012

C.O.D.E.R. 2012 - A 24 hour algorithmic coding event conducted by CSA, BITS Pilani.

- Won 1st prize in the event as part of a 2 member team.

Sep 2012

eX-Opti - An Expense Management System.

- Part of a 2 member team for Desert Hack - a week long hackathon
- A multi-platform expense management on the Google App Engine. Accessible through the website (www.ex-opti.appspot.com) or through telephony(+91-4466949325) - DTMF. Built using Python, HTML and JQuery Mobile using the Kookoo API and Google Charts API.

Sep 2012

Optimus-Webwizard.

- Part of a 2 member team for Webwizard - A Google Devfest Hackathon Event
- Had to use the maximum number of Google APIs in a website. Built using Python, HTML5 and Javascript and hosted on the Google App Engine - used 8 Google APIs
- Won 3rd prize in the event

Oct 2012-Nov 2012

Image Compression Algorithms.

- Implemented Discrete Cosine Transform and Singular Value Decomposition based Image Compression Algorithms in MATLAB as part of the course Multimedia Computing
- **Mentor** Prof. Shailendra Singh Shekhawat

Competitive Programming.

- Implemented several Classical Algorithms for solving Programming tasks on Online judges like SPOJ, Topcoder and Codechef

Online Courses.

- Machine Learning (by Andrew NG, Stanford University) - Received statement of accomplishment for scoring more than 80% in the course

Positions Held

- Captain – Swimming Team, BITS Pilani for the year 2012
- Head of Computer Vision Team – Mobile Computing Group, BITS Pilani for the year 2012
- Part of 4 member Project Forum Team, Computer Science Association, BITS Pilani for APOGEE 2013