Maniteja Nandana

Personal Data

Place and Date of Birth:	Hyderabad, India	02 March 1995
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Education

July 2012	Bachelor of Engineering in Computer Science **Birla Institute of Technology and Sciences**, India Gpa: 9.38/10 Major Gpa: 9.40/10
July 2010	Board of Intermediate in Maths, Physics and Chemistry **Vijaya Ratna Junior College**, India Gpa: 95.5/100
Fall 2008	Central Board for Secondary Education **Sri Vidya Secondary School**, Hyderabad Gpa: 9.6/10

Work Experience

July 2016 Software Engineer Paypal, Chennai
Risk compliance post transaction team

Worked on Post transaction compliance team in Risk division. Worked on analysing millions of transactions for money laundering and fraud detection. Part of project to improve the processing time from a day to about 5 hours using pig scripts and batch processing. Involved knowledge in hadoop, lucence and spring

JanPerf 2016 Research Intern Center for Artificial Intelligence and Robotics, Bangalore
Deep Learning for Speaker Recognition

Worked on Convolutional deep belief networks to extract high level features for Speaker diarization. Compare the accuracy of CDBN features with the MFCC features of the spectral signals for various speakers

Summer 2015 Developer Intern at Amazon, Hyderabad
Development of Online Coding Platform

Developed an online platform for interviews and coding. Involves shell scripting, spring framework and cloud services. Implemented algorithms for generating random test cases using various algorithms. Based on Spring MVC, AWS and Amazon EC2 services.

Summer 2014 Research Intern Bhabha Atomic Research Centre, Mumbai

Network intrustion detection API for Information Security Management System. Based on Python Django framework, RESTful API, PostgreSQL database and Apache servers

Technical Projects

Aug - Dec 15 Defect occurrence prediction of open source software
Mentor: Prof. N.L. Bhanu Murthy, Head of Department, Computer Science, BITS

Modelling probability distributions for fitting data to find defect occurrence patterns in software and use statistical comparison tests to evaluate the goodness of fit. Predicting the arrival trends of bug reports in future releases, resulting in efficient and effective software maintenance for organizations

Jan - May 15 Classification of open source contributors using clustering
Mentor: Prof. Aruna Malapati, Assistant Professor, Computer Science, BITS

Using GitHub contributions , Stack Overflow reputation and LinkedIn professional background to create a profile of developers to allow people to search for a developer with a specific set of skills. Involved using Principal Component Analysis for dimensionality reduction and Clustering the contributors into groups based on their contributing patterns to determine the overall efficacy and proficiency with the codebase

Jan - May 16 Semantic Service Oriented Architecture using JADE and JENA
Mentor: Dr. Shyni Thomas, Scientist E, CAIR, DRDO

Implement a semantic service oriented architecture (SSOA) for communication and collaboration between multi-agent systems using JADE on a distributed system network for purpose of swarm optimization in robots. The knowledge base was developed on JENA ontology and OWL descriptive language

Aug 15 - Mar 16 Open source contributor to Scikit-Learn and scipy ecosystem

Besides being a regular contributor, implement a meta-estimator to perform multi output classification and work on various preprocessing methods like Imputer and Box-Cox transform in Scikit-Learn, a widely used machine learning library in Python and have implemented various statistical distributions for SciPy

Jan - May 15 Mini projects in Natural Language Processing, Information Retrieval, Machine Learning and Data Mining

Text-based information retrieval systems using Boolean, Vector space and probabilistic retrieval models. Machine learning algorithms like decision tree, candidate elimination and naïve bayes classifier. Rule mining data structures like FP tree and Hash tree.

Responsibilities

1. Mentor for Introduction to Natural Language Processing under Student Mentorship Program(SMP) to juniors
2. Part of organizing team of MIT Media Lab Engineering the Eye workshop in association with L.V.Prasad Eye Institute.
3. Volunteer at providing support to rural children under the initiatives of the NGO, Nirmaan (www.nirmaan.org)

Scholarships and Accolades

1. College Scholarship for meritous students with an outstanding curriculum
2. All India Rank 399 in GATE - Graduate Aptitude Test in Engineering
3. GRE score of 327(Q:167;V:160)
4. Stood in the top 2 percentile of SAT Essay writing.

Languages

English: Fluent, Telugu: Native, Hindi: Basic Knowledge

Computer Skills

Advanced Knowledge:	Python, C, Cpp, R, SQL, MATLAB
Intermediate Knowledge:	MIPS, ASM, SystemC, Verilog, Ruby, Perl, MS Office, PostgreSQL, AllegroDB, Django AngularJS, SpringMVC, HTML, JavaScript
Distributed System:	Apache Spark, Apache Hadoop
MachineLearning:	Scipy ecosystem, Tensorflow
MultiAgent:	JADE, JENA
VersionControl:	Git, Bitbucket

Interests and Activities

Technology, Open-Source, Programming, Paradoxes, Psychoanalysis, Travelling