



## Objective

To be a part of an organization where the process of learning never ends and imagination takes its wings to unexplored skies and hard workers are always promoted.

## Education

Program	Institution	%/CGPA	Year of completion
Master of Technology, Computer Science and Engineering	Indian Institute of Technology, Madras	9.4	2015
Bachelor of Engineering, Computer Engineering	MES College Of Engineering Pune	75.8%	2011
XIIth Std. (CBSE),	Kendriya Vidyalaya, Ganeshkhind, Pune	90.2%	2007
Xth Std. (CBSE)	Kendriya Vidyalaya, Ganeshkhind, Pune	83.8%	2005

## Scholastic Achievements

- Won Second Prize for Code Red Contest in Solutions'10 organized by Army Institute of Technology, Pune.
- Participated and won Second prize for C/C++ and paper presentation Contest in Zest'08 conducted by the Association Of Computer Engineers (A.C.E.)
- Secured college-first in F.Y. engineering

## Course Work

### 1. Core Courses

August 2013-Nov 2013

IIT Madras

- Mathematical Concepts in CS
- Advanced Data Structures and Algorithms

### 2. Elective Courses

August 2013-April 2014

IIT Madras

- Pattern Recognition
- Data Mining
- Speech Technology
- Kernel Methods for Pattern Analysis

## Course Projects

### 1. Spotting of optimal business location

January - April 2014

<https://github.com/sudhargk/datamining>

IIT Madras

A machine learning solution using the location based social networking data to identify the best location among the different locations suggested.

HIGHLIGHTS : Implemented multiple regression techniques and achieved 81 % accuracy on cross-validation.

### 2. A parallel implementation of discrete Hidden Markov Model

January - April 2014

<https://github.com/sudhargk/parallelhmm>

IIT Madras

Implementation of two main aspects of HMM training which are forward evaluation and viterbi alignment algorithm using Pthreads.

HIGHLIGHTS : Attained 2x speed up using four threads on a long input sequences.

## Working Experience

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### 1. Connector Development

Feb 2014 - Jul 2014

Senior Software Engineer

Persistent System Private Limited, Pune

SCOPE : Build connectors for different platform (CRM, ERP and Social platforms) and generate BI reports after data scraping.

PERSONAL CONTRIBUTIONS : Designed and built a generic parsing module to parse responses (XML,JSON,CSV) and generate relational data in a streaming manner helping client in agile development of connectors.

### 2. Contact Center Analytics

Apr 2013 - Jan 2014

Software Engineer

Persistent System Private Limited, Pune

SCOPE : Predict the call volume in contact center which in turn help staffing of contact center workers.

PERSONAL CONTRIBUTIONS : Solved ad-hoc analytical queries on contact centre data and built regression model to predict call volumes.

### 3. Ticket breach prediction

Sep 2012 - Mar 2013

Software Engineer

Persistent System Private Limited, Pune

SCOPE : Build a tool to help the call center dispatchers in understanding whether a ticket created by the customers would breach the SLA or not.

PERSONAL CONTRIBUTION : Implemented new features like internationalization of all texts in the tool and exporting predictions results to excel. Also developed code in java for testing data from PMML, removing the dependency on expensive toolkit.

## Key Projects

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### 1. Deep Neural Net Toolbox

Ongoing

<https://github.com/iitm-donlab/python-dnn>

IIT, Madras

A python tool kit for implementation of state of art algorithms for fields like computer vision, automatic speech recognition.

HIGHLIGHTS : Achieved state of art results on the MNIST dataset provides easy configuration for new dataset

### 2. Sharespot

May 2011

<https://github.com/sudhargk/sharespot>

MES College Of Engineering, Pune

An android application that integrates different sharing sites (Flickr, YouTube and Picasa) into a single mobile application.

HIGHLIGHTS : Allows configuration of multiple account, caching of media and parallel browsing.

### 3. Online Dead Stock Register

May 2009

<https://github.com/sudhargk/dead-stock-register>

MES College Of Engineering, Pune

A management system that replaces the conventional bulky registers to hold the records of the dead stock of any institution.

HIGHLIGHTS : Authorization based on profile of the logged in user. Supports automatic and manual resolution of dead stock numbering.

## Skills and Tools

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- Programming Languages - C/C++, Java, Python, SQL, Shell scripting
- Operating Systems - Linux, Windows
- Applications and Tools - MySQL, vi Editor
- Machine learning Tools - Matlab, libSVM, Weka

## Interested in

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- Listening to Music
- Playing Cricket, Table Tennis
- Reading books

## Declaration

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I hereby declare that all the information given above is true to the best of my knowledge as on September 17, 2014.