

## CURRICULUM VITAE

### GOPAL R. KAREMORE

**DOB:** 24<sup>th</sup> Dec 1982

**MS (Medical Software-Manipal Univ.)**

**BE (Electronics-Pune Univ.)**

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### OBJECTIVE

Intend to build career with leading corporate of hi-tech environment with committed and dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key player in challenging and creative environment.

### EDUCATION QUALIFICATION

Course name	Board/Univ	Year of passing	Marks in %	Grade	Subsequent Attempt
X/SSC	Pune	1998	84	Distinction	NO
XII/HSSC	Nagpur	2000	81	Distinction	NO
BE Electronics	Pune Univ.	2005	70	Distinction	NO
MS Medical Software	Manipal Univ.	Will be completed on April 2007	1 <sup>st</sup> yr GPA 8.3	Distinction	NO

## CERTIFICATES OF COURSES AND COMPUTER AWARENESS

- C & DATA STRUCTURES at **EL-NET-3L** academy (CALCUTTA).
- VISUAL BASIC 6.0 at **C-DAC PACE** GIST (PUNE)
- **MICROSOFT** CERTIFIED PROFESSIONALS (MCP) at Karrox Technology (PUNE).
- INTERCONNECTING **CISCO** NETWORK DEVICES (640-801) at Karrox Technology (PUNE).
- Programming languages: **C, VC++,C#.NET, HTML 5.0, J2ME,**
- Operating Systems : **Windows 2000 Server Family, XP.**
- Application Software: **RATIONAL ROSE, MATLAB 7.0** (IPT, DSP, IA, ANN, STATISTICS),ITK,VTK

## INDUSTRY EXPOSURE

- Project on Early Detection of Breast Cancer using Ultrasound at [Philips\\_Medical System](#), Bangalore, India.  
(From 10<sup>th</sup> July 2006 to 26<sup>th</sup> March 2007)  
In this project, we implement unsupervised image segmentation using Hidden Markov Random Field Algorithm. Here our intention is to discriminate the given breast ultra sonogram in to benign and malignant group on the basis of clinically tested ultra sonogram of the breast from radiology experts. We have implemented complete algorithm using pure C# Programming. This work is communicated for International Publication.
- Project on CT Imaging of Brain at [Imaging Labs, GE Global Research](#), Bangalore, India (26<sup>th</sup> July to Today)

➤ **Intelligent Unmanned Battle Tank (Real Time Pattern Recognition and Feature Extraction):**

This project has got **Sponsorship** from (**V.R.D.E., Ministry of Defense Govt. of India**) in 2005.

Capable of autonomous navigation with optional control facilities that can detect an object in three meter radii of its vicinity, identify it as enemy target in a similar way as humans do and finally target it. I have used Image Processing (Kernel PCA algorithm) to achieve the same. The complete software is being developed using (Confidential!! Please Mail for further Information).

➤ **Cheapest Telemedicine technique Using J2ME Enabled Mobile Phones:**

This project is done during the Ist SEM of MS Medical software for **PHILIPS BOP**, Manipal in 2005.

Most professionals, doctors, nurses, and medical specialists are becoming more reliant on wireless devices such as personal digital assistants (PDAs) to improve the efficiency of their jobs. This project gives an idea that how efficiently a mobile phone can be used for health care both for clinician and patient. I have used J2ME language on a Windows platform with GPRS enabled mobile.

➤ **Improved Techniques for the Classification of Cancerous Data:**

This Project is done for **Center for Laser Spectroscopy, KMC-Life Science Center**, Manipal in 2005.

Early detection of cancer is one of the challenging fields for the Medical sciences. The main Limitation for this is an efficient classification of Malignant and Benign tumor. I am working on classification of spectroscopic data using statistical, neural, and Fuzzy toolboxes of MATLAB R-14.

➤ **Application development on SIMPUTER using GTK library with Linux Kernel-PHILIPS BOP project.**

Project done under guidance of Encore Software, Bangalore.

➤ **PACS System design and Implementation using CGI, RMI, Java Image Processing- A software Engineering Project.**

## SINGIFICANT ACHIEVEMENTS

### ➤ **Research Work:**

Worked as a research Collaborator under Dr. C Santhosh during masters (2005-07) on Early Detection of Cervical and Breast Cancer at [Manipal Center for Laser Spectroscopy](#) .

### ➤ **Paper Publications:**

Three Papers have been communicated to International Journal of [Biomedical Optics and Journal of computational biology and Radiology Journal](#) (ANN and Fuzzy Approach for Cervical and Breast Cancer Diagnosis).  
// Secured for Intellectual Property Standards //

### ➤ **International Conference Proceedings:**

- **“Boundary Extraction of breast Masses on Ultrasound by Gibbs Sampled Hidden Markov Model** “at [Philips Medical System](#), Bangalore, India for [International conference on Soft Computing in Medical Image Processing](#) (Under Communication), Toronto, Canada.
- **“CAD of Breast Cancer in Ultrasound”**. Breast Con-2007, [11th National Conference on Breast Cancer](#) ,Manipal, India
- **“Serum Protein Profile Analysis using Fuzzy clustering Technique”** at [International Satellite meeting on Computational Insights into Biological Systems](#) , Indian Institute of Science ([IISC](#)), Bangalore.
- **“Fuzzy Clustering of Protein profiles recorded using High Performance Liquid Chromatography (HPLC) - Laser Induced Fluorescence (LIF) Technique”** at [Asian Spectroscopy Conference](#) (ASC '07), Indian Institute of Science ([IISC](#)), Bangalore.
- [International High Performance Computing \(HPC\) User Conference](#) at [IISC](#) Bangalore, India.

## ➤ Technical Paper Presentations

- **Kernel PCA-Robust Tool For Face Recognition:** (National Level- Techtatva 2005, MIT)

Selected among 7 papers in all over India.

Presented a full implemented Paper during Masters. This algorithm is Capable of doing dot product of principal component analysis Algorithm in Feature Space Instead of Input space; this decreases the computational complexity and High Dimensionality which enhance the Feature Extraction.

- **Nanotechnology-Nanomedicine:** (College Level)

Presented an introductory paper in 2002. Nanotechnology also known as the molecular

## ➤ Academic Awards:

- **All India rank 12** in MEAT-2005 Entrance Examination for MS in Medical Software.
- Maharashtra Rank **63<sup>Rd</sup>** in Pre-Medical Test (**MH-CET-2000**).
- **Pune University Topper** in 2001.
- Elected as a **President** of student wing in 10+2.
- Former Member of **ISTE** (Indian Society for Technical Education).
- Former Member of **ESA** (Electronic Students Association).

## WORKSHOPS AND INDUSTRIAL VISITS

### • WORKSHOPS :

- **SIMPUTER** training at [Encore Technology](#) (Founder of SIMPUTER concept), Bangalore.
- National Conference on biospectroscopy at [Manipal Life science center](#).
- Satellite Meeting: Computational Insights into Biology at [IISC](#), Bangalore
- Linux Installation & Configuration ([IEEE](#)).
- Basics of Networking ([IEEE](#)).
- GPS-GIS At [IIT BOMBAY](#) -TECHFEST 2003.
- Embedded System Design ([IEEE](#)).
- Digital Image Processing ([IEEE](#)).

- **INDUSTRIAL TRAINING AND VISIT :**

- VC++ and Dot NET Training at [Philips Software Center](#), Bangalore
- COM Training at [Philips Software Center](#), Bangalore.
- [GE HealthCare](#)-Bangalore, Radiology Dept. - KMC, Manipal, India.

<b>REFERENCE</b>
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<b>HOBBIES</b>
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- Reading, listening to music, Net Surfing, Handling Mini Projects.
- Playing Musical Instruments: Octodrum, Congo.

I hereby declare that the information furnished above is true to the best of my knowledge.

**Place: Bangalore**

**Date: 29<sup>th</sup> March 2007**

**(Gopal Karemore)**