

Curriculum vitae

Name: Dr. Manish Ratnakar Joshi
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Designation: Senior Lecturer, Department of Computer Science
North Maharashtra University, Jalgaon, India

Academic Qualification:

Degree	Year	Institution	Board / Uni	Percentage
Ph.D.	2007	North Maharashtra University, Jalgaon		
SET Exam	1998	Maharashtra State	Pune	Passed in First attempt
MCS	1994	Data Systems Research Foundation, Pune.	Pune	62%
BCS	1992	Nutan Maratha College, Jalgaon	Pune	62%
HSC	1989	Nutan Maratha College, Jalgaon	Pune	68%
SSC	1987	Bhagirath English Scool,Jalgaon	Pune	75%

Work Experience:

Working as **Senior Lecturer** at the Department of Computer Science, North Maharashtra University, Jalgaon, Maharashtra.

Joining Date: 02/09/1997

Role:

Teaching – Teaching to MCA, M.Sc. MBA Students

Research – Doing Research and carry out projects for the Department

Extension Work – Placement coordinator, Organizing various events, activities for students, society.

Recent Completed Assignment:

I have been appointed as **International Faculty by the Saint Mary's University, Canada** to work on the International project being carried out by Saint Mary's University, University of The Gambia and QuantumNet Pvt Ltd, The Gambia. I shall be visiting to The Gambia during 8 October 2007 to 15 December 2007 and 20 February 2008 to 30 April 2008.

Post Doctoral Fellow:

I am working as a Post Doctoral Fellow in the Faculty of Computer Science at University of New Brunswick for a period of one year.

Doctoral work:

Title: Intelligent Natural Language Interface.

Summary: To achieve smooth and easy interaction between man and machine in most natural form is the central idea of **Natural Language Processing**. We have developed and implemented shallow parsing based algorithms to improve the precision of question answering system. These algorithms can also be used to improve precision of search engines. We are working on this aspect.

Project: (Completed)

❖ Major Research Project (funded by AICTE.)

Title: Learning Grammar using Neural Networks.

Principal Investigator: S.R.Kolhe

Co-Investigator: M.R.Joshi

Grant: Rs. 300,000 /-

❖ Minor Research Project (funded by UGC.)

Title: Developing Expert System for Enquiry Counter.

Grant: Rs. 12,000 /-

Project: (Submitted)

❖ Major Research Project (Proposal given to DST.)

Title: Development of KDD based Interactive Models to Explore Correlation of Mind Conditions with Physical Elements of Human Beings.

Technology Used: Natural Language Interface, Knowledge Discovery and Data mining.

Grant asked for: Rs. 12.35 Lacs /-

Achievements:

- Cleared the State Eligibility Test in first attempt.
- Given NCST exam and had been called for the interview for the post of scientist.

Research Papers:

Journals / Refereed International Conference – 06

National/ International Conference – 06

- Visited Armenia to present Research Paper in International Conference. (September 2005)

Current Research Interests:

- Natural Language Processing
- Search engine performance issues
- Knowledge Discovery and Data Mining
- Computational Models for Artificial Intelligence
- Interdisciplinary work – Blending of oils

Experience:

Academic

Teaching: M.Sc.(Comp. Sci), MCA, M.Sc.(Info. Tech.), MBA

Courses Taught:

Modern Operating Systems, Computer Networks, Data Structures, DBMS, System Programming, MIS and DSS, Numerical Methods, Optimization Techniques, Software Engineering, Computer Architecture, Parallel Programming, Data warehouse and Data mining, Multimedia Techniques.

Preparation of Courseware:

- I am part of committee which design syllabus for M.Sc. (Computer Sci.), MCA, B.Com (E-commerce).
- I have prepared courseware for subjects, which I teach.
- I have prepared slides on topics of my interest like Natural Language Processing, Parallel Computing etc.
- I used to go to deliver lectures at various places on different topics. I have prepared academic material to support my talk. Talk on – “Process of Learning language by babies”, “Use of computers for high end computing”, “Advanced trends in Computers”, “Genetic Algorithms”.

Responsibilities Held in University Administration:

- Chairman, Board of Paper Setters and Examiners for MCA and M.Sc. (Computer Science) courses in North Maharashtra University, Jalgaon.
- Invited Member of Board of Studies for Computer Science subject in North Maharashtra University, Jalgaon.
- Member, Board of Paper Setters and Examiners for MCA course in SIBER, Kolhapur.
- Member of various Local Inquiry Committee's.
- Member of number of selection committees in the role of subject expert.
- I was Placement Coordinator of my Department.
- I am coordinator of Teacher Parent association for my department.

Professional:

Consultancy work:

1) Honorary Consultant, Seva Software Pvt. Ltd.

Duration: 2000-2003.

Software Project: ‘Gurukul’

About Gurukul: This is a commercial product of the company targeting educational institutions. Complete governance of the educational institution can be done using this software with the help of six different modules.

Technical Details:

Front End : Visual Basic 6.0

Back End : MS Access

My Contribution: A team of average 4 programmers does complete development of software and I headed the team. Software is implemented around 20+ institutions all over Maharashtra. I have initiated various Software Engineering practices in the company. Prepared and maintained various documents. After getting feedback from sites we have developed user operation manual and finalized a training program for the users. I made the design for the pamphlets (distributed all over Maharashtra), prepared notes elaborating working of the software.

2) Honorary Consultant, DipGanga Hospital, Jalgaon

Duration: 2002 Onwards

Software Project: **‘Visual Doctor’**

About ‘Visual Doctor’: This is customized software under development. Doctor is using different software products for his medical purpose but he want to improve his overall speed of attending the patients by converting the manual process into computerized one.

Technical Details:

Front End : Visual Basic 6.0

Back End : MS Access / SQL Server

My Contribution: Here I am guiding a programmer in developing the software. Different modules developed are being used in the hospital and therefore complete procedures of OPD, accounting as well as maintenance of patient history are now standardized.

3) Honorary Consultant, Nirmal Lime Industries, Jalgaon

Duration: 2003-04.

Software Project: 'Inventory and Account maintenance'

About Software: This is customized software, which is used in the industry. This small-scale industry can now keep track of raw material and finished goods material availability in stocks. Can easily get reports regarding balance amount towards different customers at various places all over Maharashtra.

Technical Details:

Front End : Visual Basic 6.0

Back End : MS Access

My Contribution: With the help of two MCA students I have developed the software for this company. Users cannot even specify their requirements in proper manner and requirements were used to change very often. We have provided a very user-friendly interface, which looks like their original way of handling data. It helped the user to adopt the system more quickly than our expectations.

4) Project Development for Examination Department of the University

Duration: 2005

Software Project: 'Stock Maintenance of Confidential Material'

About Software: This software is developed with two intentions, first, the obvious one, to fulfill the requirements of the user and the second is to develop it using open source. We developed the software on LINUX platform.

The software helps the examination department to keep track of number of question paper sets of different courses, different subjects, different versions (Syllabus), different marking patterns, different versions (Language) etc. Exam department handles examination for around 1000 subjects in every semester. The software helps them in handling this voluminous and error prone task.

Technical Details:

Front End : Java -

Back End : Postgre SQL

My Contribution: With the help of a MCA student I have developed the software for the Department. Gathering of Users requirements and designing the database was my contribution. We have learned a lot through experiments and through Linux documentation. We have change the mindset of the user and shifted them from Windows to Linux.

5) Developed Number of Websites.

Literature:

- Edited a proceedings book of a national level workshop.
- I used to write articles in Marathi. My articles are published in 'Disha' supplement of newspaper Daily 'Sakal'
- A special series of my articles was published in Daily 'Tarun Bharat'. (13 articles)
- A series of 15 articles was published in Daily Lokmat.
- A special series of my articles is being published in Daily 'Sakal' on every Wednesday.
- Article related to Internet was broadcasted by AIR, Jalgaon.
- Interview giving details about Artificial Intelligence was broadcasted by AIR, Jalgaon.

Computer Proficiency:

Languages: BASIC, Pascal, COBOL, C, C++, ProLog, HTML, Multi Pascal, Java.

Operating Systems: DOS, Windows 9x, UNIX, Linux

RDBMS: Oracle 7, SQL - Server

Front Ends: Visual Basic 6.0, Developer 2000.

Presentation: MS Power Point, Flash

Personal Details:

Date of Birth: May 18, 1972.

Nationality: Indian.

Sex: Male.

Marital Status: Married

Mother Tongue: Marathi

Language Proficiency: Marathi, Hindi, English, Bengali (Can read only)