

Curriculum Vitae

Name: Dr. Manish Ratnakar Joshi

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Designation: Professor,
School of Computer Sciences,
North Maharashtra University, Jalgaon, MS, India

Joining Date: 02/09/1997, North Maharashtra University, Jalgaon. MS, India



Academic Qualification:

Degree	Year	Institution	Board / Uni	Percentage
Post Doctoral Fellow	2008 to 2009	Faculty of Computer Science, University of New Brunswick, Fredericton, Canada.	-	-
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 School, Jalgaon	Pune	75%

National Award for the outstanding efforts in translation of Popular Science and Technology for the year 2018 by Department of Science and Technology of Government of India.

Role:

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

Research – Actively engaged myself in various research activities

Extension Work – Alumni Coordinator, Placement coordinator, organizing various events, activities for students and society.

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.

Post Doctoral Fellow:

I had been offered a fellowship to work on the ACENet project in the Faculty of Computer Science at **University of New Brunswick, Canada** during 2008-2009. I completed the assignment that resulted in a few good research papers published by ACM (digital library), Springer etc.

Current Research Interests:

- Knowledge Discovery and Data Mining (Using Rough Set Theory)
- Rough Set Theory Applications especially for Machine Intelligence
- Automated Matchmaking in e-Marketplaces
- Natural Language Processing
- Computational Models for Artificial Intelligence

Special Assignments:

- I am one of the trainers selected to work on the European Union Project “**Establishment of Capacity Building Centers as a sustainable solution to raise the standards of teaching staff in Indian HEIs**”. Visited Poland under this programme for a duration of a week in March 2019.
- I have been invited by Durban University of Technology (**DUT, South Africa**) for research and collaboration for three week in 2015. The process of establishing MOU between two institutions is at final stage.
- I worked as a Managing Editor for an open access e-Book titled “Advances in Semantic Computing”, Invited guest editor of a special issue of International Journal of Computer Science and Applications

- I was one of the coordinators of the Rough Set Year in India 2009 (RSYIndia-09) project sponsored by the International Rough Set Society.
- I worked in **The Gambia as an International Faculty of the Saint Mary's University (SMU), Canada** to work on the joint International project spearheaded by the SMU. This assignment was completed during 8 October 2007 to 15 December 2007 and 20 February 2008 to 30 April 2008.

Achievements:

- Obtained first prize in University Level Research Exhibition – ‘Aavishkar-2006’.
- Cleared the State Eligibility Test in first attempt.
- Given NCST exam and had been called for the interview for the post of scientist.

Projects:

❖ **Major Research Project (funded by RMVS.) (Sanctioned)**

Title: Development of Marathi Interface for GIMP Software.

Role: Principle Investigator

Grant: Rs. 742,000 /-

❖ **Major Research Project (funded by AICTE.) (Completed)**

Title: Learning Grammar using Neural Networks.

Role: Co-Investigator

Grant: Rs. 300,000 /-

❖ **Minor Research Project (funded by UGC.) (Completed)**

Title: Developing Expert System for Enquiry Counter.

PhD Students:

Awarded: 04

On going: 02

Research Papers:

International Journals / Refereed Conference Proceedings: **64**

Book Chapter and Reports: **08**

National Journals / Conference Proceedings: **23**

Books Edited: **02**

Special Issue of Journal (IJCSA): **02**

Invited Talks:

International Level: **11**

National Level: **20**

More than 35 Marathi articles describing technology in simpler language and aimed at popularizing science and technology are published in dailies like Lokmat, Sakal, Tarun Bharat. More than five Speeches/interviews broadcasted on All India Radio's Jalgaon Station.

Academic Experience:

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

Courses Taught: Data Structures, Computer Organization and Architecture, Modern Operating Systems, Computer Networks, DBMS, System Programming, MIS and DSS, Numerical Methods, Optimization Algorithms, Software Engineering, 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 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:

- Coordinator of Exam committee constituted under academic flexibility to the School of Computer Sciences.
- I organized Alumni meet for the School in 2013.
- Chairman, Board of Paper Setters and Examiners for MCA and M.Sc. (Computer Science) courses in North Maharashtra University, Jalgaon.
- I was one of the members of an Academic Committee formulated to ensure continuous monitoring of syllabus revisions and improving quality of education imparted at the Department.
- 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 a subject expert.
- I was Placement Coordinator of my Department.
- I was coordinator of Teacher Parent association for my department.

Professional Experience:

1) International Consultant

I have been invited by **Ministry of Basic and Secondary Education, The Gambia** as an International Consultant to advise them in their overall software development process.

2) Honorary Consultant, Seva Software Pvt. Ltd.

Duration: 2000-2005.

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.

3) Honorary Consultant, DipGanga Hospital, Jalgaon

Duration: 2002 Onwards

Software Project: **'Visual Doctor'**

About 'Visual Doctor': This is an ongoing customized software project. It is successfully running since 2004 and continuous enhancements are performed to match with changing requirements of the Doctor.

4) Developed Number of Websites.

Literature:

- Managing Editor of an open access referred book published at the international level.
- Edited a proceedings book of a national level workshop.

- I 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, PHP, Open MPI libraries for parallel programming.

Operating Systems: DOS, Windows XP, UNIX, Linux

RDBMS: Oracle, MS SQL – Server, MySQL

Front Ends: Visual Basic, Java, PHP.

Document Preparation System: LaTeX

Content Management System: Joomla

Learning Management System: Moodle

Numerical Computational Software: MatLab

Machine Learning Softwares: Weka, R, RSES

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)