

Profile

DR. AJAY UTTAMRAO SURWADE

Ph.D. (Computer Science)
SET (Comp. Sci. & Application)
M.C.A.
B.Sc. (Physics)



Assistant Professor
School of Computer Sciences,
North Maharashtra University, Jalgaon.

Office: 0257-2257453 Ext-107

ajaysurwade AT gmail DOT com, ausurwade AT nmu DOT ac DOT in

Experience

- ❖ Presently working as **Assistant Professor in Computer Science & Application** at the **School of Computer Sciences, North Maharashtra University, Jalgaon**, from 17th March, 2005.
- ❖ Worked as a **Lecturer in Computer Science** at the **Department of Computer Science, Bhusawal Arts, Science and P.O. Nahata Commerce College, Bhusawal**, from 1st July, 2003 to 16th March, 2005.
- ❖ Worked as a **Lecturer in Computer Science** at the **Department of Computer Science, Smt P. K. Kotecha Mahila Mahavidyalaya, Bhusawal**, from 17th October, 2001 to 30th May, 2003.
- ❖ Worked as **Lecturer in Computer Science** at the **Department of Computer Science, Dadasaheb Devidas Namdev Bhole College, Bhusawal**, from 1st July, 2001 to 16th October, 2001.
- ❖ Worked as **Software Engineer** at **Computer Maintenance Corporation Ltd., Ahmedabad (CMC, Ltd.)** in Implementation of **GENeral Insurance SYStem (GENISYS)** project for New India Assurance Company Ltd., from October, 2000 to June, 2001.
- ❖ Worked as a **Technical Assistant** at Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, from July, 2000 to September, 2000.
- ❖ Worked as a **Project Trainee** at Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, From January, 2000 to June, 2000.

Teaching Experience

PG 14 Years (Till, July-2016)

UG 05 Years

Research Prizes Won

- **State Level Avishkar (01)**
 - 1) **First Prize at 8th Maharashtra State Inter University Research Convention 'Avishkar-2013'**, under Teachers Category in the theme area Pure Sciences, organized by North Maharashtra University, Jalgaon, held on 16th -18th January, 2014.
- **University Level Avishkar (02)**
 - 1) **Second Prize at University Level 'Avishkar-2013'**, under Teachers Category in the theme area Pure Sciences, organized by North Maharashtra University, Jalgaon, held on 18th -19th October, 2013.
 - 2) **First Prize at University level 'Avishkar-2012'**, under Teachers Category in the theme area Pure Sciences, organized by North Maharashtra University, Jalgaon, held on 13th -14th December, 2012.

Membership of Professional Bodies

- Member of **International Association of Engineers (IAENG) Membership No. 63320.**
- Annual Member of **Indian Science Congress Association (ISCA) Membership No. SLM587.**

Research Project Completed

Name of the Investigator (with PI & Co-PI)	Title of Project	Duration	Amount Sanctioned	Funding Agency
Ajay U. Surwade (PI)	Study of E-mail Delivery Pattern and it's Susceptibility to Spam	2011-2013	Rs. 1,60,000/-	UGC, New Delhi
Prof. S.R.Kolhe (PI) A. U. Surwade (Co - PI)	Development of Proposal for Effective Spam Management Systems.	2011-2014	Rs. 2,26,000/-	UGC, New Delhi

Qualification

- **Doctor of Philosophy (Ph.D.)** in Computer Science awarded in **2016**.
Thesis Title “Development of Framework for Effective Spam Management System”
- Qualified **State Eligibility Test (SET)** held on **February, 2003**.
- **M.C.A.** from University Department of Computer Science, North Maharashtra University, Jalgaon, in **July, 2000**.
- **B.Sc. in Physics** from Bhusawal Arts, Science and P.O. Nahata Commerce college, Bhusawal in **July, 1997**.

Personal Details

Date of Birth	October 10, 1976
Sex	Male
Marital Status	Double
Nationality	Indian

Technical Skills

- **Operating Systems** Windows 2000/8/10, Unix, Sun Solaris.
- **Programming Languages** Python, C/C++, CGI-PERL, XML, FORTRAN
- **GUI/RDBMS** ORACLE, Developer 2000, Visual Basic 6.0, MS-SQL Server 2000/2008.

List of Research Papers Published

❖ **Journals (04)**

• International Journal :- (02)

- 1) Ajay U. Surwade, Manoj P. Patil and S.R.Kolhe, “An Empirical Analysis of Spam E-mail Classification using Machine Learning Techniques”, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 9, Number 18, 2014, pp. 5057-5074. (Scopus and Google Scholar)
- 2) Ajay U. Surwade & S.R.Kolhe, “Performance of Naïve Bayesian filter on dataset Enron, LingSpam and on Personal Messages”. International Journal of Computer Science & Information Technology, ISSN: 2230-7621, Volume 2, No. 3, January– August, 2012.

- **National Journal (02)**

- 1) Ajay U. Surwade & S.R.Kolhe, “Spam Classification on PU123A and Personal Email Messages”, Journal of Science and Technology, ISSN 0975-5446, Volume:(3), Issue: (2), PP:73-80, March-2012.
- 2) Ajay U. Surwade & S.R.Kolhe, “Challenge Response system with White-listing and Blacklisting to identify Botnets”, Journal of Science and Technology, ISSN 0975-5446, Volume (2): Issue (1) pp.52-56, January– June 2010.

- ❖ **Conferences (13)**

- **In the proceedings of International Conferences (02)**

- 1) Ajay U. Surwade, M.P.Patil, and S.R.Kolhe, “Effective and Adaptive Technological Solution to Block Spam E-mail”, at IEEE International Conference on Human Machine Interaction-2016 (HMI-2016) held at R.L.Jallapa Institute of Technology, Bangalore on 3-5 March, 2016. (**IEEE Explorer**)
- 2) Ajay U. Surwade, “Home based approach with RBS to locate mobile entities”, at 1st IEEE International conference on Emerging Trends in Engineering and Technology, organized by G.H. Rasoni College of Engineering, Nagpur, India, held at Nagpur on July, 16-18, 2008.

- **In the proceedings of National Conferences (11)**

- 1) Ajay U. Surwade and S.R.Kolhe “Classification of Ham and Spam E-mails using Filter” at Third National Conference on Advances in Computing (NCAC-2013) organized by School of Computer Sciences, North Maharashtra University, Jalgaon held on 5-6, March, 2013.
- 2) Ajay U. Surwade and S.R.Kolhe, “Filtering Spam on Personal E-mail Messages”, at National Conference on Advances in Computing-2012 (NCAC-2012) organized by Department of Computer Science, North Maharashtra University, Jalgaon held on 16-17 March, 2012.
- 3) Ajay U. Surwade and S.R.Kolhe, “Spam Classification on PU123A and Personal E-mail Messages”, at National level Seminar on Natural Language Processing and Data Mining organized by Department of Computer Science, Veer Narmad South Gujrat University, Surat held on 3-4 March, 2012.

- 4) Ajay U. Surwade and S.R.Kolhe, “Spam Classification using Naïve Bayesian Filter” at State level conference on Research Trends in Computer and Management held on 8th January, 2012 organized by Institute of Management and Career Development, Bhusawal.
- 5) Ajay U. Surwade and S.R.Kolhe, “Experimental analysis of Naive Bayesian Filter on datasets including Enron, LingSpam and Personal E-mail Message”, at 99th Indian Science Congress held on 3-7, January, 2012 at Bhubaneswar.
- 6) Ajay U. Surwade and S.R.Kolhe, “Combination of origin based filters with Content based filter to block Spam E-mail” at National Conference on Advances in Computing (NCAC-2011), organized by Department of Computer Science, North Maharashtra University, Jalgaon held on 24-25, February, 2011.
- 7) Ajay U. Surwade and S.R.Kolhe, “Challenge Response System with White-listing and Blacklisting to identify Botnets” at National Conference on Emerging Technologies in Electronics, Mechanical and Computer Engineering organized by Indore Institute of Science and Technology, Indore (M.P) held on 17-18 April, 2010.
- 8) Ajay U. Surwade and S.R.Kolhe, “A Proposal to Implement an Effective Spam Management System” at National Conference on National Conference on Architecturing Future IT Systems (NCAFIS-08) organized by School of Computer Science and Information Technology, Devi Ahilya University, Indore (MP) held on 17-18 October , 2008.
- 9) Ajay U. Surwade and S.R.Kolhe, “Developing an Integrated Three Schema Approach in Central Data Warehouse ” at Two days National Conference on “Sustainable Rural Development: A Strategic Roadmap for Economic Excellence” organized by Department of Management Studies, North Maharashtra University, Jalgaon on 25-26 September, 2008.
- 10) Ajay U. Surwade, “Information Communication Technology for Rural Development” at Two days National Conference on “Going Global: Changing Prospectus of Indian Corporation” organized by Department of Management Studies, North Maharashtra University, Jalgaon, on 10-11 January, 2008.

- 11) A.U. Surwade and S.R.Kolhe, “Selective Encryption of Compressed and Uncompressed Images” at National Conference on “Use of Computers and Internet for Child Development” organized by UGC New Delhi & SSVPS’s Lk. Dr. P.R. Ghogrey Science College, Dhule on 20-21 January, 2006

[First Prize for Best Paper Presentation]

- **State Level Avishkar (02)**

- 1) Ajay U. Surwade, “Blocking Spam E-mails using Origin based Filters and Content based Filters” at State level Research Festival ‘Avishkar-2013’ organized by North Maharashtra University, Jalgaon, held on 16-18 January, 2014.

[First Prize at State Level from Teachers category]

- 2) Ajay U. Surwade, “Effective Use of Technological Measures for Blocking Spam E-mails” at State level Research Festival ‘Avishkar-2012’ organized by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, held on 7-9 January, 2013.

- **University Level Avishkar (05)**

- 1) Ajay U. Surwade, “Blocking Spam E-mails using Origin based Filters and Content based Filters” at University level Research Festival ‘Avishkar-2013’ organized by North Maharashtra University, Jalgaon, held on 18-19 October, 2013.

[Second Prize from Teachers category]

- 2) Ajay U. Surwade, “Effective Use of Technological Measures for Blocking Spam E-mails” at University level Research Festival ‘Avishkar-2012’ organized by North Maharashtra University, Jalgaon, held on 13-14 December, 2012.

[First Prize from Teachers category]

- 3) Ajay U. Surwade “Evaluation of Naive Bayesian Filter on Enron dataset” at University level Research Festival ‘Avishkar-2011’ organized by North Maharashtra University, Jalgaon, held on 28-29 December, 2011.

- 4) Ajay U. Surwade, “Challenge Response System with Blacklisting, White-listing and Grey-listing to identify Botnets” at University level Research Festival ‘Avishkar-2009’ organized by North Maharashtra University, Jalgaon, held on 1-2 December, 2009.

- 5) Ajay U. Surwade, “Challenge-Response System to identify Botnets” at University level Research Festival ‘Avishkar-2008’ organized North Maharashtra University, Jalgaon, held on 17-18 December, 2008.

Administrative Work Experience at School

- Coordinator of Admission Committee under Academic flexibility of School of Computer Sciences, North Maharashtra University, Jalgaon from June, 2015 to till this date.
- Member of Academic Committee under Academic flexibility of School of Computer Sciences, North Maharashtra University, Jalgaon from June, 2012- June, 2014.
- Look after every activity of DTE and AICTE related to MCA course like EOA of MCA and other.
- Preparations of Funding Proposals sent to UGC, DTE and AICTE from School of Computer Sciences, North Maharashtra University, Jalgaon.
- Preparations of Annual Reports sent every year from School to PRO, NMU, Jalgaon.
- Prepared Report for Criterion-II, Criterion-III, Criterion-V, Criterion-VI for NAAC reaccreditation of the University at IIIrd cycle.

Leadership Experience

- Coordinated **Hostel Day-2013, Hostel Day-2014 & Hostel Day-2015** under the **guidance of Hon’ble Vice Chancellor Prof. Sudhir U. Meshram.**
- Co-coordinator of ‘**Manthan**’ activity to celebrate **National Science Day** at School of Computer Science, NMU, Jalgaon every year from **2007 to 2015.**
- Organizing Secretary of **National Conference on Advances in Computing-2013 (NCAC-2013)** held on 5-6 March, 2013.
- **Organizing Secretary** of three days **National Workshop on Advances in Computing (NWAC-2015)** organized by School of Computer Sciences, North Maharashtra University, Jalgaon sponsored by UGC New Delhi held on 1-3 March, 2015.

Contribution towards University

- Member of **Student Welfare Advisory Committee** constituted by **Hon'ble Vice-Chancellor** for 2016-2018.
- Member of **Central Committee of Bachelor of Vocational (B.Voc)** for North Maharashtra University, Jalgaon constituted by **Hon'ble Vice-Chancellor, NMU Jalgaon.**
- Member of Adhoc Board of Studies (BOS) for Bachelor of Vocational courses for 2013-2015.
- Member of **Anti-Ragging Committee** constituted by **Hon'ble Vice-Chancellor** for 2013-2016.
- **Joint Secretary** and Member of **Hostel Development Zone Council** constituted by **Hon'ble Vice-Chancellor** under his Chairmanship.
- Member of **Student Welfare Advisory Committee** constituted by **Hon'ble Vice-Chancellor** for 2013-2016.
- Member of Transportation and Accommodation Committee of 3rd Global Sustainable Biotech Congress (GSBC-2014) organized by North Maharashtra University, Jalgaon held in December,2014.
- Chairman of **Transportation Committee for State Level Avishkar Committee** held on 16-18 January, 2014 at N.M.U., Jalgaon.
- Member of **Preparation of Information brochure Committee** for the admissions to University Schools at NMU Campus for Academic Year 2013-14, 2014-15, 2015-16 and 2016-17.
- Worked as **Administrative Officer** at Central Assessment Program 2013 at NMU, Jalgaon.
- Member of Organizing Committee of **Ashvamedh-2006.**

Any other activity Ongoing / Completed

- The software modules to automate the work of **Health Centre, NMU Jalgaon** such as, '**Inventory System for Medicines**' and '**Maintaining Patient**

- Information'** is successfully implemented at Health Center N.M.U., Jalgaon.
- The software module to automate the '**Hostel Administration System**' is developed and deployed at **Boy's Hostel NMU, Jalgaon** with help of final year students of MCA.
 - Development of software module to automate the work of **BCUD, NMU, Jalgaon and Meeting/Sabha section of NMU, Jalgaon** is ongoing with the help of MCA students.

Workshops / Conferences / Seminars attended

- Actively participated in **National Workshop on Advances in Computing-2015 (NWAC-2015)** organized by School of Computer sciences, North Maharashtra University, Jalgaon sponsored by UGC New Delhi held on 1-3 March,2015.
- Actively participated in **National Seminar on Natural Language Processing and Image Processing-2015 (NLP-IP-2015)** organized by School of Computer sciences, North Maharashtra University, Jalgaon sponsored by UGC New Delhi held on 14-15 March,2015.
- Actively participated in **National Workshop on Algorithms, Computations and Optimisation-2011 (NWACO-2011)** organized by Indore Institute of Computer Application, Indore at Indore on 17-18 March, 2011.
- **Member of Organizing committee** of **National Workshop** on "**Advances in Computing** held on 16th-17th March, 2009, organized by Department of Computer Science, North Maharashtra University, Jalgaon.
- Actively participated in one day workshop on **Patent Awareness Workshop** organized by North Maharashtra University, Jalgaon sponsored by TIFAC, DST, New Delhi held on 4th August, 2008.
- **Member of Organizing committee** of National Workshop on "**Emerging Research Trends in Advanced Computing**" (**ERTAC-07**) held on 14-15 July,2007 organized by Department of Computer Science, North Maharashtra University, Jalgaon.
- Actively participated in National level Instructional Conference held at Kolhapur on "**Research Trends in Information Technology**" held on 03-04 March, 2007 organized by Chatrapati Shahu Central Institute of Business, Education and Research, Kolhapur.

- Actively participated in International Conference **13th Asia Pacific Software Engineering Conference-2006 (APSEC-2006)** held at Bangalore on 06-08, December, 2006 organized by I.I.T., Kanpur & I.I.T., Delhi.
- Attended a Workshop on **Effective preparation for SET examination for Computer Science & Application** at Jalgaon organized by Department of Computer Science, North Maharashtra University, Jalgaon on 14-16 December, 2002.
- Actively participated in National Conference on **Recent Trends in Information, Communication Technology & Application** organized by Department of Computer Science, North Maharashtra University, Jalgaon & Loksevak Madhukarrao Chaudhari Amrut Mahotsav samiti, Jalgaon on 10-11 October, 2002.
- Attended National Workshop on **Advances in Web based Computing** organized by Department of Computer Science, North Maharashtra University, Jalgaon on 9-10 February, 2002.
- Attended Zonal Seminar on **Electronics, Communication & I.T. for Agriculture** at Panjabrao Deshmukh Krishi Vidyapeeth Akola (PKV, Akola) organized by IETE, Nagpur on 22 January, 2000.

Curriculum Design

- **Member** of Adhoc **Board of Studies (BOS)** under faculty of Science for Diploma in Animation and Web Designing constituted by **Hon'ble Vice Chancellor, NMU Jalgaon.**
- Actively participated as a **Invited Member** in the **B.O.S.** meeting at North Maharashtra University, Jalgaon to frame the syllabus of M.C.A./M.Sc. (Computer Science)/ M.Sc. (Information Technology) & structure of B.Sc. (Computer Science) and B.Sc. (Information Technology) syllabus for academic year 2007-08 on 24th April, 2006.
- Actively participated in the Workshop on **Syllabus framing of T.Y.B.Sc. (Computer Science)** organized at B.P. Arts, S.M.A Science & K.K.C Commerce College, Chalisgaon, on February 25th, 2004.
- Actively participated in the Workshop on **Syllabus framing of B.Sc. (Computer Science) & B.Sc. (Information Technology)** organized at B.P. Arts, S.M.A Science & K.K.C Com. College, Chalisgaon, on 01st April, 2002..

Experience Highlights

- **CMC Ltd., was a Government of India Undertaking, now it has been undertaken by Tata Consultancy Services (TCS) India.**

Project: - GENeral Insurance SYStem (GENISYS) is non-life insurance software developed for New India Assurance Company Ltd., to automate entire working of NIA India. The S/W developed with Oracle 7.3 & Developer 2000 with Forms 4.5 & Reports 2.5 in UNIX & Windows NT operating environment.

Role :-

- ✓ Customization of various modules as per the customer requirements.
- ✓ Problem analysis of Users for up-gradation of product.
- ✓ Workgroup setup and implementation of GENISYS at various offices of New India Assurance Company Ltd.
- ✓ Training the Users on GENISYS.

- **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (PKV, Akola)**

Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola is an Agricultural University in Maharashtra. It is undertaken by Indian Council for Agricultural Research, New Delhi (ICAR, New Delhi).

Project: - Development and Design of website for Dr. P.D.K.V., Akola.

The URL of the website is <http://pdkv.mah.nic.in>

This site gives information about the research work done and ongoing at the University. It contains information regarding the academic courses including Ph.D. programs of the University. The website developed in Linux and Windows NT operating environment.
