NIDHI CHOPRA
nidhi.chopra@gmail.com ♦ Resident of India

Experience summary
Experienced professional in field of computer science, mathematics, data analysis with six years of research and teaching experience.

Skills and strengths
Course design and learning theory, data science & problem solving, research, analysis, teaching, statistics, writing reports & articles, illustrating, class room management, online group management, computer laboratory maintenance.

Work experience (6 years)

Research and Teaching Assistant (RTA), School of Computer & Information Sciences (SOCIS), Indira Gandhi National Open University (IGNOU), Maidan Garhi, Delhi. — May, 2008 -
· Educational Data Mining using MS-excel, data handling, data organization.
· Presentation lectures in the area of e-Learning, rough sets, fuzzy sets, research methodology, data dining, machine learning, mathematics, programming. — Jan, 2012
· Evaluation of graduate and undergraduate level projects, assignments & papers.
· Assisting in coordinating activities of distance scholars (researchers) of SOCIS.

Teacher Trainee (during B.Ed.), Abhinav Public School, Pitam Pura, Delhi. — Oct 2007
· Teaching of mathematics and Integrated Science - implemented 20+ teaching aids in VIII class, assisted in cricket match organization, assessment data analysis report.
· Assisted in school's disciplinary duties, substitute teacher.

Senior Computer Faculty, RS Laxmi Narain Saraswati Govt. Girls Senior Secondary School (GGSSS)-aided, Katra Neel, Chandni Chowk, Delhi. — Nov, 2006 -
Delhi School Project (DSP) by Aptech (SSI) and Directorate of Education, Delhi.
· Teaching Information Practices to classes XI & XII; laboratory maintenance. — Apr, 2007
· Teaching basic computer applications to classes IX and X (HTML).
· Substitute teacher, examination & picnic duties.

Officer, Bobcards Ltd. (Subsidiary of Bank of Baroda, Faridabad and Delhi branches), First Floor, 16, Parliament Street, New Delhi. — Feb, 2006 -
· Data management, handling and organization using MS-Excel.
· Customer care & marketing. — Oct, 2006

Junior Computer Faculty, Sarvodaya Kanya Vidyalaya (SKV), Ranjit Nagar, Delhi. — Aug, 2005 -
DSP by Aptech (SSI) and Directorate of Education, Delhi.
· Teaching of basic computer concepts to classes VI-VIII (MS windows, paint, MS office).
· Substitute teacher, functions & exam duties. — Feb, 2006

Project Trainee (during MCA final semester), Council of Scientific Instruments Organization (CSIO), Council of Scientific & Industrial Research (CSIR), Pusa, New Delhi. — Feb, 2004 -
· <u>Title of the Project</u>: Synthesis for Multilingual Text-to-Speech (TTS) System using C.
· Studied file structure of audio file, wrote programs to display audio file information & studied various TTS tools available online. — Jun, 2004

Education

Doctor of Philosophy (Computer Science), SOCIS, IGNOU, Maidan Garhi, Delhi. — Dec, 2014
· <u>Title of the Thesis</u>: Study of tools and techniques to propose and analyse an e-Learning Software.
· Research Methodology, Fuzzy Logic and Fuzzy Systems, Theory Simulations and Applications, Rough set theory, Data Mining, Machine Learning. — 76.6% (degree awaited)
· Thesis submitted in November 2013 & defended in August 2014.

Bachelor of Education, Gitarattan Institute of Advanced Studies and Training, Guru Gobind Singh Indraprastha University (GGSIPU), Delhi. — May, 2008
· Education in Emerging Indian Society, Psychology of Learner and Teaching – Learning Process, System & Issues in Indian Education, Curriculum & Instruction, Computer in Education, Teaching of Integrated Sciences, Teaching of Mathematics, Environmental Education, Teaching Skill Development, Psychological Practical, Computer Practical, ATR, Critical Appraisal of Text Book, SUPW, Visual Education, Tutorial, Co-curricular activities & Sports. — 82.2%

Master of Computer Applications, Maharishi Dayanand University (MDU), Rohtak, Haryana. — May, 2006
· Mathematical Foundation of Computer Science, Foundation Course in IT & Problem Solving using C, Computer Organization & Assembly Language, PC Software, Structured System Analysis and Design, Data and File Structure (using C), Computer Graphics and Multimedia, Analysis & Design of Algorithms, Database Management System, System Programming, Relational Database Management System, Operating System, Artificial Intelligence, Distributed — 65.7%

Computer Networks and Applications, Object Oriented Programming, Unix & Shell Programming, Web Application Tools and E-Commerce, Software Engineering, Object Oriented Analysis and Design, Visual Languages Programming, Internet Programming, Software Testing & Quality Assurance, Windows Programming, IT Management, Network Management & Programming.

B.Sc. Mathematics (Hons.), Miranda House, Delhi University, North Campus, Delhi.   Jul, 2001   62%

· Vector Calculus & Geometry, Real Analysis, Algebra, Differential Equations, Mechanics, Numerical Analysis & Computer Programming, Probability & Mathematical Statistics, Boolean Algebra, Linear Programming & Game Theory, Physics, Chemistry, English, History of Science & Scientific Methods.

· 2nd in college and 3rd in university (1st year, 1998-1999).

Class 12th, CBSE Board, Kulachi Hansraj Model School, Ashok Vihar, Delhi.   Jul, 1998   75.4%

· English Core, Mathematics, Physics, Chemistry, Biology, Work Experience (art), Physical & Health Education, General Studies.

Class 10th, CBSE Board, GGSSS, Roop Nagar No.1, Delhi.   Jul, 1996   76.8%

· English Course-A, Sanskrit, Mathematics, Science with Practical, Social Science, Physical & Health Education, Art Education (music)

· Topper in English Course-A, Mathematics, Science with Practical

· Additional Hindi Course-B   70/100

Journal papers (1 citation)

1. Nidhi Chopra, Manohar Lal, Descriptive Analysis of Enrolment Data & Adaptive Educational Hypermedia, p. 531-536, BVICAM's International Journal of Information Technology, Issue 9, Vol.5 No.1, January-July 2013.
2. Nidhi Chopra, Enrolment Data Of Disabled Students Of IGNOU: A Case Study Using ID3, Research Cell: An International Journal of Engineering Sciences, Vol. 8, No. 1, January-June 2013, ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online), p. 13-21.
   a. http://www.indjst.org/index.php/indjst/article/view/70701/56566 (cited at [6]).

Presentations (6 conference, forum and workshop presentations, 3 citations)

1. Nidhi Chopra, Effect of Season of Birth on Disability, 6th International Conference on Science of Consciousness, Psychotherapy and Yoga Praxis: Ancient and Modern Perspective, 24-26 September, 2012, Souvenir and Abstracts, p. 83, at Special Centre for Sanskrit Studies, Jawaharlal Nehru University, New Delhi.
2. Nidhi Chopra, Data Mining in Connection with National Knowledge Commission, 19th September 2012, IGNOU Research Forum, Research Unit, IGNOU, Maidan Garhi, Delhi.
3. Nidhi Chopra, Manohar Lal, Research Methodology for Educational Data Mining in India, 23-24 February, INDIACom 2012 Conference Proceeding, p. 325-328, 336, 338, ISSN 0973-7529 and ISBN 978-93-80544-03-8.
   a. http://www.mecs-press.org/ijcnis/ijcnis-v5-n3/IJCNIS-V5-N3-7.pdf (cited at [8]).
   b. http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7055573&isnumber=7055553 (cited at [1]).
   c. http://computers.journalspub.info/index.php/JSCT/article/view/18 (cited at [9]).
4. Nidhi Chopra, Finding interesting patterns and correlations in enrolment data of disabled students, PSLC Summer School 2011, CMU, Pittsburgh, USA, 25-29 July 2011 (Poster).
5. Nidhi Chopra, A Notion from Crisp Sets to Rough Sets, International Conference for Digital Libraries 2010 by TERI & IGNOU, Conference Proceedings, 23-26 February 2010, p. 932 -936.
6. Nidhi Chopra, A Notion from Logic to A.I., National Workshop for Computational Sciences at Department of Physics & Astrophysics, North Campus, University of Delhi, 1-7 July 2010 Workshop Proceedings, ISBN: 978-93-81361-09-2, p. 60-64.

Posters

1. Nidhi Chopra, Practical Issues in EDM-real world raw data, PSLC Summer School 2011, CMU, Pittsburgh, USA, 25-29 July 2011 (Presentation).
2. Nidhi Chopra, Expanding e-learning: Learner-to-learner approach (Poster), Recent Advances and Future Trends in IT 2009 by Punjabi University, Patiala, Conference Proceedings, 9-10 April 2009, p.-221 (Punjab).

Articles

1. Nidhi Chopra, From Logic to Artificial Intelligence, Science Reporter, March 2011, Vol. 48 No. 3, NISCAIR-CSIR, Delhi, ISSN 00368512, p. 45-47.
2. Nidhi Chopra, Channel to Teach Basic Science, Point Counterpoint, Science Reporter, January 2011, Vol. 48 No. 1, NISCAIR-CSIR, Delhi, ISSN 00368512, p.- 26.
3. Nidhi Chopra, Education Stress Syndrome, Science Reporter, March 2010, Vol. 47 No. 3, ISSN 00368512, NISCAIR-CSIR, Delhi, p.-15.

Software packages: MS Windows, C, FoxPro, oracle SQL, hot potatoes, MSW Logo, MS office (presentations using power point, data analysis using MS excel), DTP using Microsoft publisher-designing, compiling, editing, Windows Live Movie Maker, Web 2.0.

Professional services

1. Reviewer for Book chapter-ERSAT 2011 (IGI-Global's Educational Recommender Systems and Technologies' Program Team).

   a.   http://my.safaribooksonline.com/book/-/9781613504895/program-committee/iv
2. Voluntary reviewer for papers, articles and abstracts for IEEE's ToE (Transactions on Education).
   a.   http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=06809875
3. Voluntary (additional) reviewer for EISTA 2011, 2012, 2013, 2015 (International Conference on Education and Information Systems, Technologies and Applications), ICEIC 2011 (International Conference on Education, Informatics, and Cybernetics), CKSE 2013 (The International Symposium on Cognition / Knowledge Science and Engineering).
4. Life member of IRCS. Was a member of EDMS, British Council Library, American Library, DU Library, translation committee (English to Hindi) of MCA course content (IGNOU). Was a student member of IEEE-Education Society, Computer Society, Communications Society etc., WIE and various other committees of IEEE, ACM, CSI.
5. Subscribed to science reporter (NISCAIR) 2012-20013, various other educational and inspirational magazines from time to time.
6. Assisting staff & faculty in the organization of panel discussion and convocations at IGNOU. Rapporteur at National Workshop for Computational Sciences at Department of Physics & Astrophysics, North Campus, University of Delhi, 1-7 July 2010.

Trainings

· Advanced Diploma in Computer Applications, Programming & Office Automation, July 2004-June 2005 (1 year course), Grover Computer Centre, Shalimar Bagh, Delhi.
· Introduction to Oracle 9i-SQL, September, 2005-November, 2005 (3 months duration), NIIT Kamla Nagar, Delhi.
· Certificate of Participation, Aptech Certified Faculty (DSP), 2nd November, 2006-4th November, 2006 (24 hours i.e. 3 days course), Aptech Computer Education, Delhi.

Certificates awarded

· Certificate for 64% marks in National Mathematics Olympiad Contest by Delhi Association of Mathematics Teachers, 1996 (Class 10th / Junior / B level), 1st in school.
· Certificate of Merit, Science Open Merit Test by Delhi State Science Teachers' Forum, 1996, for 16th position in Delhi (Class 10th).
· Appreciation Certificate, Science Open Merit Test by Delhi State Science Teachers' Forum, 1996, 1st in school GGSSS, Roop Nagar Number 1, Delhi (Class 10th).
· Certificate of Merit for 76% marks, Geography Awareness Competition by Delhi Bhugol Shikshak Club, 1995-96, 10th position in Delhi (Class 10th), 1st in school.
· Certificate of Participation by National Capital Region, Delhi Govt., Directorate of Education, Delhi, Science Exhibition-1995, Govt. Girls Senior Secondary School, Roop Nagar Number 1, Delhi (Class 10th).
· Certificate of Scholarship and Appreciation, Science, 1990-91, Class 5th, Education Department, MCD, Delhi.
· Certificate of Scholarship and Appreciation, Social Science, 1990-91, Class 5th, Education Department, MCD, Delhi.
· Certificate of Scholarship and Appreciation, Science, 1989-90, Class 4th, Education Department, MCD, Delhi.

Co-curricular activities

· Certificate of Course Completion, Indian Garment Design, 22nd March 2012-22nd May 2012 (2 months), Shriram's Usha International Ltd., Company Sewing School, Jawahar Nagar, Delhi.
· Certificate of Participation, Health Promotion through Ayurveda and Yoga, 2nd February, 2010-22nd April, 2010 (50 hours self-care course), Indian Red Cross Society, Delhi.
· Won prizes at quiz contests by IEEE at IIT Delhi, American Embassy Library, Women's Era Magazine, token of appreciation from Yahoo! Answers.

Language proficiency (R, S, W): English, Hindi
Preferred location: California, Faridabad, Delhi

http://in.linkedin.com/pub/nidhi-chopra/69/239/b51/
http://scholar.google.co.in/citations?user=D1LSjUgAAAAJ
https://www.youtube.com/channel/UCi54Qqd4vKKypZE0V6UVH8A
http://www.touchtalent.com/artist/427952/nidhi-chopra