

## CURRICULUM VITAE

### **Nilesh Madhukar Patil**

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### **Career Objective:**

To be associated with progressive organization that gives me scope to update my knowledge and skills in accordance with latest trends, be a part of team, dynamically work towards the growth of organization, and gain satisfaction thereof.

### **Qualifications:**

1. **Ph.D.** in Computer Engineering from Pacific Academy of Higher Education & Research (PAHER) University, Udaipur, Rajasthan in July 2019.
2. Completed Master of Engineering (M.E.) in Information Technology with Distinction (74.64%) from Pillai's Institute of Information Technology, Navi Mumbai affiliated to Mumbai University in May 2012.
3. Completed Bachelor of Engineering (B.E.) in Information Technology with First Class (65.25%) from Vidyavardhini's College of Engineering and Technology, Vasai affiliated to Mumbai University in May 2006.

### **Computer Skills:**

**Languages:** C, C++, Java, Visual Basic 6.0, C#

**O.S.:** Windows 98/XP/2000/2003/2007, Linux, UNIX, Android

**Databases:** MS SQL Server 2000, MS Access, Oracle

**Internet Technology:** HTML, XML, ASP, JSP, Servlet, RSS, AJAX, PHP

**Others:** Rational Rose, MATLAB, Microsoft Visio, Microsoft Project 2000, GPSS, LaTeX, NS2, R Software, Contiki Cooja, Cupcarbon

### **Academic Projects:**

1. **Library Management System:**  
The objective of the project was to develop the software to computerize all transactions in the library. The project was developed in Visual Basic 6.0 and SQL Server under Windows XP.
2. **Internet Control of Mobile Platform:**  
The objective of the project was to develop a robot which can be controlled over the net. Typically, it can be used for surveillance purpose. The project was developed in VB 6.0 and Embedded C.
3. **Anonymous Connections and Onion Routing for Multimedia Data Transmission:**  
The objective of the project was to transmit multimedia data over the LAN in an anonymous way such that no attacker on the LAN can attack and reveal the data. The project was developed in Java and also simulation of it was done in Python to compare performance with respect to Dijkstra's Algorithm.
4. **Content-based Audio Classification and Retrieval using Segmentation, Feature Extraction and Neural Network Approach:**  
The objective of this project is to classify the audio signal into speech, music and noise signal. Further finding the gender and age of speech signal, finding genre of music signal and classifying the noise signal as applause, machine noise, etc. The classification is performed using four classifiers namely, SVM, kNN, PNN and FPNN.

**Work Experience:**

1. Working as the Assistant Professor in Department of Information Technology, Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai from August 1, 2018 to till date.
2. Worked as the Assistant Professor in Department of Information Technology, MCT's Rajiv Gandhi Institute of Technology, Andheri, Mumbai from December 1, 2012 to July 31, 2018.
3. Worked as the Lecturer in Department of Information Technology, MCT's Rajiv Gandhi Institute of Technology, Andheri, Mumbai from August 7, 2006 to November 30, 2012.

**Extracurricular Activities:**

- Attended one week STTP on "Advances in Wired and Wireless Communication Networks" in R.G.I.T., Mumbai from 11<sup>th</sup> to 15<sup>th</sup> June 2007.
- Attended one week STTP on "Recent Trends in Electronics and Instrumentation" in R.G.I.T., Mumbai from 7<sup>th</sup> to 11<sup>th</sup> January 2008.
- Attended one week STTP on "Network Configuration and Security in LINUX" in R.G.I.T., Mumbai from 1<sup>st</sup> to 5<sup>th</sup> June 2009.
- Attended one week STTP on "Middleware Technologies and Wireless Communication using J2ME" in R.G.I.T., Mumbai from 4<sup>th</sup> to 8<sup>th</sup> January 2010.
- Attended Orientation Program of "Internet Programming" in Sardar Patel Institute of Technology, Mumbai.
- Attended Orientation Program of "Middleware and Enterprise Integration Technologies" in Terna College of Engineering, Navi Mumbai.
- Attended two days' workshop on "Knowledge ++" organized by L&T Infotech, Navi Mumbai on 20<sup>th</sup> and 21<sup>st</sup> February 2015.
- Attended one week "Faculty Development Programme" organized by IGate Patni, IKP, Navi Mumbai from 25<sup>th</sup> May to 29<sup>th</sup> May 2015.
- Attended Orientation Program of "Operating System and UNIX Lab" in Terna College of Engineering, Navi Mumbai on 10<sup>th</sup> January 2018.
- Attended Orientation Program of "Cryptography and Network Security" in K.J. Somaiya Institute of Engineering and Information Technology, Sion.
- Attended Two Days Hands-On Session (Workshop) on Wireless Sensor Network using Contiki Cooja and Cupcarbon Simulator, at Xavier Institute of Engineering, Mahim, Mumbai on 4<sup>th</sup> Jan and 5<sup>th</sup> Jan, 2019.
- Attended Faculty Orientation Program for the subject "Wireless Network & Sensor Network Lab" on behalf of Mumbai University, at Terna Engineering College, Nerul on 10<sup>th</sup> Jan 2019.
- Attended two week AICTE-ISTE Approved STTP on "Securing Operating System at Kernel Level" in RAIT, Mumbai from 10<sup>th</sup> to 21<sup>st</sup> June 2019.
- Attended Orientation Program of "Operations Research" in Vidyavardhini's College of Engineering and Technology, Vasai on 28<sup>th</sup> June 2019.
- Attended Orientation Program of "Mobile Application Development and Android Apps Development Lab" at Fr. Conceicao Rodrigues Institute of Technology, Vashi on 6<sup>th</sup> July, 2019.
- Attended Faculty Development Program on "Experiential Learning, Automation, Machine Learning" at TCS, Yantra Park, Thane on 19<sup>th</sup> August, 2019.

**NPTEL Courses Completed:**

- "Introduction to Operating Systems", 8-week course (Jul-Sep 2017) completed with consolidated score of 77% and Elite Certificate.
- "Cloud Computing", 8-week course (Jul-Sep 2018) completed with consolidated score of 70% and Elite Certificate.
- "Introduction to R Software" 8-week course (Jul-Sep 2018) completed with consolidated score of 87% and Elite Certificate.

**Administrative Responsibilities:**

- Development, handling and maintenance of Payroll Software in the RGIT Institute.

- Development, handling and maintenance of Feedback Software in the RGIT Institute.
- Handling and maintenance of RGIT Institute Web Portal.
- Worked on Live Project “21Organics” undertaken by the Management of RGIT Institute.
- Convener of Student Body “ABIT” of the department in the RGIT Institute.
- Member of Discipline Committee of the department in the RGIT Institute.
- Member of Central Library of the RGIT Institute.
- Member of Alumni Committee of the RGIT Institute.
- Coordinator for NAAC criteria 3 and 7 in RGIT Institute.
- Coordinator for Industrial Visit in the department at Fr. CRCE Institute.
- Coordinator for Mini-Project Sem-6 in the department at Fr. CRCE Institute.
- Coordinator for Admission Process at Fr. CRCE Institute.
- Member of Publication Committee for ICAC3 2019 IEEE Conference.
- Faculty Training and Placement Coordinator in department of Information Technology at Fr. CRCE Institute.

## **Publications:**

### ***Journals: (21)***

1. Nilesh Patil, Rohan Naik, Siddhant Dhawan, Rahish Rayan, “Electricity Bill Prediction”, International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 5, page no.104-107, May-2019.
2. Nilesh M. Patil, Milind U. Nemade (2019), “Content Based Audio Classification and Retrieval using Segmentation, Feature Extraction and Neural Network Approach”, Advances in Intelligent System and Computing, Springer, Vol. 924, ISSN: 2194-5357, pp. 263-281. **DOI: 10.1007/978-981-13-6861-5**
3. Nilesh Patil, Yash Sawant, Tanveet Kaur, Siddhi Kate, Chintan Wagh (2018), “IOT Based Weather Monitoring for Agriculture”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol. 6 Issue 4, ISSN: 2321-8169, pp. 21-24.
4. Nilesh. M. Patil, Rishabh Jain, Shubham Sankhe, Karan Vichare, Atharva Wankhede (2018), “IOT Based Environment Pollution Monitoring System”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol. 6 Issue 4, ISSN: 2321-8169, pp. 150-153.
5. Nilesh M. Patil, Milind U. Nemade (2018), “Audio Classification Using Segmentation, MFCC and PNN Classifier”, Advances in Computational Sciences and Technology (ACST), Vol. 11, Issue 1 (Special Issue), ISSN: 0973-6107, pp. 125-130.
6. Nilesh M. Patil, Milind U. Nemade (2017), “Content-Based Audio Classification and Retrieval: A Novel Approach”, IEEE Xplore Digital Library Proceedings of International Conference on Global Trends in Signal Processing, Information Computing and Communication (ICGTSPICC), ISBN: 978-1-5090-0467-6, pp. 599-606. **DOI: 10.1109/ICGTSPICC.2016.7955371**
7. Nilesh Patil, Harsh Desai, Hamza Moiyadi, Dhairyaa Pawar, Geet Agrawal (2017), “Semantic Analysis Based Text Summarization”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol. 5 Issue 4, ISSN: 2321-8169, pp. 170 – 175.
8. Nilesh Patil, Dishant Shetty, Shadab Shaikh, Govind Shah, Prajwal Shetty (2017), “Automobile Information Retrieval and Updating Using NFC Based Secure Mobile System”, International Journal of Advance Research and Innovative Ideas in Education (IJARIIE), Vol. 3, Issue 2, ISSN: 2395-4396, pp. 4957-4963.
9. Nilesh Patil, Apoorav Singh, Piyush Patel, Nisarg Joshi, Pranav Pawaskar (2017), “Soil Classification Support for Farming Decisions”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol. 5 Issue 4, ISSN: 2321-8169, pp. 221 – 225.
10. Nilesh M Patil, Akshat Gawankar, Avnish Kumar, and Kunal Borge (2017), "Student Profile & Personality Prediction using Data Mining Algorithms" International Journal of Advance Research and Innovative Ideas in Education (IJARIIE), Vol. 3 Issue 2, ISSN: 2395-4396, pp. 4175-4179. **DOI: 16.0415/IJARIIE-4681**

11. Nilesh M. Patil, Dr. Milind U. Nemade (2017), "Music Genre Classification Using MFCC, K-NN and SVM Classifier", International Journal of Computer Engineering In Research Trends, Vol. 4, Issue 2, ISSN: 2349-7884, pp. 43-47.
12. Nilesh Patil, Sunil Wankhade, Chirag Atha, Kshitij Baranwal, and Varad Desai (2017), "Enhancement in Home Automation Using Raspberry PI", International Journal of Advance Research and Innovative Ideas in Education, Vol. 3, Issue 1, ISSN: 2395-4396, pp. 1088-1093.
13. Nilesh Patil, Hamza Moiyadi, Harsh Desai, Dhairya Pawar, Geet Agrawal (2016), "NLP Based Text Summarization Using Semantic Analysis", International Journal of Advanced Engineering Management and Science, Vol. 2, Issue 10, ISSN: 2454-1311, pp.1812-1818.
14. Nilesh Patil, Nikhil Mane and Love Nijai (2016), "ARDROID: Arduino and Android Based Internet Controlled Telepresence Robot", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 4, Issue 3, ISSN: 2321-8169, pp. 331-334.
15. Nilesh Patil, Aarti Kamble, Hinet Patil and Prashant Sapkal (2016), "Network Based Payroll System", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 4, Issue 3, ISSN: 2321-8169, pp. 350-352.
16. Nilesh Patil, Harsha Khutafale, Hardika Mate and Vaishnavi Sabnawis (2016), "XamClick-Exam Cell Automation System", International Journal of Advanced Research in Computer Science and Software Engineering, Vol.6, Issue 3, ISSN: 2277 128X, pp. 304-307.
17. Nilesh Patil, Adesh Mhatre, Dhruv Gandhi (2015), "Electronic Toll Collection (ETC) System Using Wi-Fi Technology", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 3, Issue 4, ISSN: 2321-8169, pp. 2045-2050. **DOI: 10.17762/ijritcc2321-8169.160461**
18. Nilesh Patil, Shashikant Kuswaha, Praful Choudhary (2015), "Data Transmission using AES-RSA Based Hybrid Security Algorithms", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 3, Issue 4, ISSN: 2321- 8169, pp. 1964 – 1969. **DOI: 10.17762/ijritcc2321-8169.160445**
19. Nilesh Madhukar Patil and Shailesh Sangle (2014), "Speech Synthesis Using Android", International Journal of Innovative Research and Development, Vol. 3, Issue 6, ISSN 2278 – 0211, June 2014, pp 352-356.
20. Nilesh Madhukar Patil and Dr. Chelapa Lingam (2012), "Anonymous Connections and Onion Routing", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 2, No. 2, ISSN: 2277 128X, February 2012, pp 1-6.
21. Nilesh Madhukar Patil and Dr. Chelapa Lingam (2012), "Anonymous Connections and Onion Routing", International Journal of Computers, Information Technology and Engineering, Serials Publications, Vol.6, No. 1, ISSN: 0973-743X pp 31-37.

**Conferences: (10)**

1. Nilesh M. Patil, Milind U. Nemade (2018), "Content Based Audio Classification and Retrieval using Segmentation, Feature Extraction and Neural Network Approach", 3<sup>rd</sup> International Conference Computer Communication and Computational Sciences (IC4S-2018), Springer, October 20 and 21, 2018, Mandarin Hotel, Bangkok, Thailand.
2. Nilesh M. Patil, Milind U. Nemade (2018), "Audio Classification Using Segmentation, MFCC and PNN Classifier", 1<sup>st</sup> International Conference on Advances in Science and Technology (ICAST-2018), April 6 & 7, 2018, K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, Maharashtra.
3. Nilesh M. Patil, Milind U. Nemade (2018), "Content-Based Audio Classification using Segmentation, MFCC Feature Extraction and Neural Network Approach", IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing (EECCMC-2018), January 28 & 29, 2018, Priyadarshini Engineering College, Vellore, Tamil Nadu.
4. Nilesh M. Patil, Milind U. Nemade (2017), "AUDIO SIGNAL DEBLURRING USING SINGULAR VALUE DECOMPOSITION (SVD)", IEEE International Conference On Power, Control, Signals And Instrumentation Engineering (ICPSI-2017), September 21 & 22, Saveetha Engineering College, Thandalam, Chennai.
5. Nilesh M. Patil, Dr. Milind U. Nemade (2016), "Content-Based Audio Classification and

Retrieval: A Novel Approach”, IEEE International Conference on Global Trends in Signal Processing, Information Computing and Communication (ICSPICC-2016), December 24 & 25,2016, SSBT’s College of Engineering and Technology, Jalgaon.

6. Nilesh Madhukar Patil, Dr. Chelva Lingam (2012), “Anonymous Connections and Onion Routing for Multimedia Data Transmission”, Research Forum Seminar-2012, Pillai HOCL, Rasayani, Mumbai.
7. Nilesh Patil, Renuka Agrawal (2011), “Network Security by Onion Routing”, The Proceedings of International Conference on Information Technology Management, October 11-12, 2011, JSPM’s Abacus Institute of Computer Applications, Pune.
8. Nilesh Patil, Renuka Agrawal (2011), “Anonymous Connections and Onion Routing”, The Proceedings of International Conference on Computer Science and Information Technology, July 24-25, 2011, Interscience Research Network, Bangalore.
9. Nilesh Patil, Shailesh Sangle (2010), “Cloud Computing and Virtualization”, The Proceedings of International Conference on International Conference on Computers Communication and Intelligence, Vellamal College of Engineering and Technology, Madurai.
10. Nilesh Patil (2008), “Semantic Web Technology and Ontology”, The Proceedings of National Conference on Emerging Trends in Engineering & Management, JSPM’s Rajarshi Shahu College of Engineering, Pune.

**Personal Details:**

**Date of Birth:** September 12, 1983

**Nationality:** Indian

**Religion:** Hindu

**Caste:** Agri

**Category:** O.B.C

**Marital Status:** Married

**Language Proficiency:** English, Marathi, Hindi

**Declaration:**

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the correctness of the above mentioned particulars.

**Place: Virar, Mumbai**

**Nilesh M. Patil**