BIO-DATA

1.	Name	Savitha S Upadhya
2.	Designation	Assistant Professor
3.	Address	AX 202, EXTC Dept, Fr. C Rodrigues Institute of Technology, Vashi Navi Mumbai-400 703, Maharashtra State, India
4.	Date of birth	17/05/1970
5.	Total Experience	23 Years
i.	Teaching	23 years
ii.	Industrial	Nil
6.	Qualifications	

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
Ph. D.	Pursuing	Veermata Jijabai Technological Institute	-	-
MTech	2008	I.I.T. Bombay, Mumbai	Communication and Signal Processing	8.64/10
BE	1991	Manipal Institute of Technology, Manipal (Mangalore university)	Electronics and Communication Engineering	1st class with Distinction (78.7%)
Diploma in Computer applications	1992	Manipal Institute of Computer Education, Manipal	-	A grade 88%

	Additional Qualification:	
7.	Employment Record	

Institution	Year (From To)	Designation
Fr. C. Rodrigues Institute of Technology, Vashi.	07-11- 2001 - till date	Assistant Professor
Vivekanand Education Society's Polytechnic, Chembur, Mumbai	15-07-1996 to 31-10-2001	Lecturer
JETKING Computer Institute, Sewri, Mumbai .	14-03-1996 to 14-07-1996	Sr. Faculty
T. M. A. Pai Polytechnic, Manipal, Karnataka	08-07-1992 to 30-04-1993	Lecturer

8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught		
	17 years teaching Experience **Subjects Taught at UG level**		

Sr.No.	Name of Subject	Semester
1	Speech Processing	B. E. Sem VIII EXTC
2	Advanced Microwave Engineering	B. E. Sem VIII EXTC
3	Discrete Time Signal Processing	B. E. Sem VII EXTC
4	Digital Communication	B. E. Sem VII EXTC
5	Digital Signal Processing	B. E. Sem VII Comp
6	Signals and Systems	T. E Sem V EXTC
7	Signals and Systems	S. E Sem IV EXTC
8	Analog and Digital Integrated Circuits	S. E Sem IV EXTC
9	Logic Design	S. E Sem III EXTC
10	Electronic Devices and Circuits	S E Sem III Comp
11	Electronic Devices and Circuits	S E Sem III IT
12	Principles of Communication	S E Sem IV EXTC
13	Data Communication	B. E. Sem VII Comp
14	Microwave II	B. E. Sem VIII EXTC
15	Basic Analog and Digital Communication	B. E. Sem VII ELEC

7 years teaching Experience
Subjects Taught at PG level

Sr.No.	Name of Subject	Semester
1	Adaptive Signal processing	M E Sem II EXTC
2	Statistical Signal Processing	M E Sem I EXTC
3	Satellite Networking	M E Sem II EXTC
4	Speech Processing	M E Sem I EXTC
5	Microwave devices and amplifier design	M E Sem II EXTC
6	Microwave Integrated Circuits	M E Sem I EXTC

9.	**Research Experience**
10.	**Research Funding / Consultancy Services:**

Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period

Research Grants:

Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
1	Mumbai University	University Grant	40.000/-	2013	Robotic Companion
2	Mumbai University	University Grant	18,000/-	2017	Diseases diagnostic system using Photo plethysmography

Technical Collaboration / Lab Funding with Industries

Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year

11.	**Professional Societies Fellowship / Membership** 1. Life Member of The Institution of Electronics & Telecommunication Engineers, India (M165676) 2. Life member of the Indian Society for Technical Education, India (LM46469).
12.	**Achievements / Awards / Position** 1. Won the First prize for the technical paper on "Digit Recogniser using template matching techniques" at the National Conference on "Nascent Technologies in

		the field of Electrical and Electronics and Telecommunication Engineering" at Fr. C RIT, Vashi during February 25-26,2010.
13.	**Projects guided in UG/PG level**	
	1. No of UG Projects Guided: 17	
	2. No of PG Projects Guided: 04 + 01 in progress	
14.	**Short Term Training Programmes attended**	

1. Attended a two days FDP on "Machine Learning and its applications" at LTCOE Mumbai, on 14th and 15th September 2017.
2. Attended a two weeks school on "School on ASR", 16-28 May 2017 at IITG, Guwahati
3. Attended a one-week STTP on "Research Opportunities in Speech and Language Processing from Jan 9-13, 2017 at Xaviers Institute of Technology, Mahim, Mumbai.
4. Attended a one-week STTP on "Wavelet Transforms and its Applications", from Dec 19-23, 2016 at KJSCOE, Vidyavihar.
5. Attended a 3-day workshop on "IEEE Authorship Workshop-How to Publish a Technical paper with IEEE" from Sept 3 – Sept 5, 2016 at VJTI, Mumbai.
6. Attended a one-week STTP on "Applications of DSP" from Nov 2-Nov 6,2016, IIT, Bombay, Maharashtra
7. Attended a one-week AICTE Sponsored National Level STTP on "VLSI & Embedded Systems" from JULY 1–5, 2013 Organized by Department of Electronics & Telecommunication Engineering, Fr. C. Rodrigues Institute of Technology, Agnel Technical Education Complex, Sector 9A, Vashi – 400 703, Navi Mumbai, Maharashtra.
8. Attended a two-week short time training programme on "Application of software tools in Electronics and Telecommunication" from Nov17 – Nov 28,2009 at Don Bosco Institute of Technology Kurla, Mumbai
9. Winter school on "Speech and Audio Processing" held at IIIT Madras, Chennai from 02/01/08- 05/01/08.
10. Attended AICTE Sponsored National Workshop on DSP and its application in Speech and Image Processing organized by EXTC dept. FCRIT, Vashi, on "DSP and its Application in Speech and Image processing" during 9-7-07 to 14-07-07.
11. ISTE-STTP on "DSP & its applications in speech processing" organized by EXTC dept., Fr. CRIT, Vashi.26-02-07 to 02-03-07

15.	**List of Journal Papers Published**	

1. Savitha S Upadhya, A N Cheeran, J H Nirmal "Multitaper Perceptual Linear Prediction Features of Voice Samples to Discriminate Healthy Persons from Early Stage Parkinson Diseased Persons", *Springer International Journal of Speech Technology*, 2017 Online version available. ISSN 1381-2416, DOI 10.1007/s10772-017-9473-6., 2017
2. Sneha Lukose, Savitha S Upadhya "Music Player Based on Emotion Recognition using SVM", *International Journal of Research and Development* ISSN:2279-073, Vol 3, Issue 4, pp 10-14., July 2017.
3. Solly Joy and Savitha S Upadhya "Computer Software Package for Analysis of Speech Signal" *International Journal of Research (IJR)* Vol-2, Issue-04, April 2015. ISSN:2348-6848
4. Solly Joy and Savitha S Upadhya *"Discriminating voiced and unvoiced segments of speech signal using GUI"* IETE 46th Mid Term Symposium "Impact of Technology on Skill Development" MTS- 2015 Special Issue of International Journal of Electronics, Communication & Soft Computing Science and Engineering, ISSN: 2277-9477, 2015.
5. Asmita Talele, Mr Koustav Chakraborty and Savitha S Upadhya, "Voice Based Privilege Banking",*International Journal of Engineering Technology, Management and Applied Sciences*, Volume 3. March 2015. ISSN 2349-4476.
6. Asmita Talele, Mr Koustav Chakraborty and Savitha S Upadhya "Voice Recognition Using MFCC Algorithm", *International Journal of Innovative Research in Advanced Engineering (IJIRAE),* Vol 1, Issue 10 No 3, pp 158-161. November 2014. ISSN:2349-2163.
7. Savitha S Upadhya "Vowel Synthesis using Cascade Formant Technique ", *Elsevier Science and Technology*, March 2014, ISBN: 127978-93-5107221-8

	8. Savitha s Upadhya "Linear Predictive Vocoder", International *Journal of Electronics Communication and Computer Technology (IJECCT)*, Volume 3 Issue 2, pp 378-381, March 2013). ISSN:2249-7838
9. Savitha S Upadhya "Digit Recognizer Using Single and Average Template Matching Techniques" *International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)*, Issue 3, Volume 3, pp. 357-361, Feb 2013. ISSN (Online): 2279-0055, ISSN (Print): 2279-0047
10. Suraj Jadhav, Shashank Kava, Sanket Khandare, Sayali Marawar and Savitha Upadhya have published a paper titled "Voice Activated Calculator" *International Journal of Emerging Technology & Advanced Engineering*, Volume 3, Issue 2, pp 504-507, Feb 2013. *ISSN 2250-2459, ISO 9001:2008 Certified Journal*
11. Savitha S Upadhya, "Fixed Point Implementation of End Point Detection Algorithm for Isolated Words", was published in the *ACM Digital library*, ACM, NY, USA@2009, ISBN :978-1-60558-351-8 doi : 10.1145/1523103.1523227.
16.	**List of Papers Published in National and International Conferences**

1. Savitha S Upadhya, A N Cheeran, J H Nirmal, "Parkinson Disease Severity Score Prediction using Speech Signal", *IET 1st International Conference on Advances in Science and Technology (ICAST-2018)*, K. J. Somaiya Institute of Engineering and Information Technology Sion(E), Mumbai, April 6 -7, 2018
2. Savitha S Upadhya, A N Cheeran, J H Nirmal, "Discrimination of Healthy and Parkinson Diseased Subjects using Thomson Multitaper Mel Frequency Cepstral Coefficients as Voice Features", *Springer 2nd International Conference on Advanced computing and Intelligent Engineering*, Central University of Rajasthan, Ajmer, India, 23 – 25 Nov 2017,
3. Jerin Joseph, Savitha S Upadhya "Indian Accent Detection using Dynamic Time Warping", *Proceedings of ICPSCI 2017*, Saveetha Engineering College, Chennai, September 21 – 22, 2017. Published in IEEE Xplore, Digital Library, 78-1-5386-0814-2/17/$31.00 ©2017 IEEE.
4. Sneha Lukose, Savitha S Upadhya "Music Player Based on Emotion Recognition of voice Signals ", *Proceedings of ICICICT 2017*, Vimal Jyoti Engineering College, Kannur, Kerala, July 6-7, 2017. Published in IEEE Xplore, Digital Library, 978-1-5090-6106-8/17/$31.00 ©2017
5. Savitha S Upadhya, A N Cheeran, J H Nirmal "Statistical Comparison of Jitter and Shimmer Voice Features for Healthy and Parkinson Affected Persons", *Proceedings of ICECCT 2017*, Coimbatore, February 22-24, 2017. Published in IEEE Xplore, Digital Library, 978-1-5090-3239-6/17/$31.00©2017IEEE.
6. Sneha Lukose, Savitha S Upadhya "Text to Speech Synthesizer - Format Synthesis", *Proceedings of ICNTE*, Fr. C R I T, Vashi, January 27-28,2017. Published in IEEE Xplore, Digital Library ,978-1-5090-2794-1/17/$31.00 ©2017 IEEE
7. Savitha S Upadhya and A N Cheeran "Extraction of Phonation Measures Affected by Parkinson Disease" in the *Conference Proceedings of Two Day International Conference on Recent Innovations in Engineering, Science, Humanities and Management"*, Gayatri Vidya Parishad College for Degree & P.G Courses, Rushikonda, Visakhapatnam, Andhra Pradesh on 11-12 August 2016. (ISBN: 978-93-86171-02-3)
8. Rhutuja Jage and Savitha S Upadhya "CELP and MELP Speech Coding Techniques" *IEEE WiSPNET 2016 International Conference*, SSN College of Engineering, Chennai, India, 23-25 March 2016.
9. Rhutuja Jage and Savitha S Upadhya "Analysis of MELP Coder*" 2016 International Conference on Innovations in information, Embedded and Communication Systems (ICIIECS)*, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India,17 and 18 March 2016. Published in IEEE Xplore, Digital Library, ISBN: 978-1-4673-8207-6/16/$31.00©2016 IEEE.
10. Rhutuja Jage and Savitha S Upadhya "Spectral Domain Waveform Coding for Speech" *IEEE Sponsored 3rd International Conference on Electronics and Communication Systems, (ICECS 2016)*, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India,25 and 26 February 2016. Published in IEEE Xplore, Digital Library, ISBN: 978-1-4673-7832-1/16/$31.00©2016 IEEE.
11. Asmita Talele, Koustav Chakraborty and Savitha S Upadhya, "Voice Based Privilege Banking", *International Conference on Emerging Trends in Engineering, Science,* |

		Management and its applications (ICETESMA-15), Academic science and conference info, Jawaharlal Nehru University, JNU convention center, New Delhi, 01, March 2015.
	12.	Solly Joy and Savitha S Upadhya "Speech analysis in Time and Frequency Domain", *Proceedings International Conference on Nascent Technologies in the Engineering Fields(ICNTE_2015),* Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai, pp 19-22, January 9-10,2015,
	13.	Savitha S Upadhya," Noise Reduction Techniques in Speech Signal" *Proceedings International Conference and workshop on Electronics and Telecommunication engineering (ICWET-2014),* Thakur college of Engineering and Technology, Kandivali, Mumbai, pp-488-491, February 28th and March 1st ,2014
	14.	Savitha S Upadhya, "Pitch Detection in Time and Frequency domain" *Proceedings International Conference on communication, Information and Computing Technology,* Sardar Patel institute of Technology, Andheri, Mumbai. 978-1-4577-2078-9/12/ IEEE, October 19-20,2012. Published in IEEE Xplore, Digital Library, ISBN :978-1-4577-2077-2, DOI: 10.1109/ICCIT.2012.6398150.
	15.	Savitha S Upadhya and Nilashree W "Pitch Estimation using Autocorrelation method and AMDF" *Proceedings International Conference on Advances in Advances in Computing and Management,* Dr. D Y Patil Institute of MCA, Akurdi, Pune pp 249-253, January 06-08, 2012.
	16.	Savitha S Upadhya, "Average Template Matching Technique for DTW Based Speech Recognition System", *Proceedings International Conference on Electronic Design and Signal Processing*, M I T, Manipal, pp 43, December 10-12, 2009.
	17.	Savitha S Upadhya "Fingerprint Recognition using MATLAB", *Proceedings National conference on Advances in Technology and Management (NCATM-2014)* A C Patil College of Engineering, Kharghar, Navi Mumbai, 14-15 February 2014.
	18.	Savitha Upadhya "Voice Morphing" *Proceedings National conference on Emerging trends in Electronics Engineering and Technology (NIRMAN-2013),* A C Patil College of Engineering, Kharghar, Navi Mumbai 32, Feb-22-23, 2013.
	19.	Savitha S Upadhya ,Nilashree wankhede, "Pitch Estimation using Autocorrelation Method"*Proceedings National conference on VLSI and Signal Processing,NCVSP-11,* G H Raisoni Institute of Engineeering and Technology,Wagholi,Pune, pp 14, June 30,2011 and July 1,2011.
	20.	Savitha S Upadhya, "Isolated Digit Recogniser using DTW", *Proceedings National Conference EQUINOX 2010*, Terna Engineering College, Nerul, Navi Mumbai, pp 48-51, September 16-18, 2010.
	21.	Savitha S Upadhya, "Digit Recogniser using Template Matching Techniques", *Proceedings National Conference on Nascent Technologies in the field of Electrical and Electronics and Telecommunication Engineering*, Fr. C RIT, Vashi, pp 12-16, February 25-26, 2010.
17.		**Books/Reports/General articles etc.**
18.		**Invited Lectures in FDP/ STTP**
	1.	Invited as a speaker for workshop on "MATLAB Fundamentals and Applications" and delivered a lecture on "MATLAB Applications in DSP" on 08/01/2016 for the MSBTE sponsored content updating programme conducted by Shah and Anchor Polytechnic Chembur, Mumbai.
	2.	Invited as a judging Panel for MSBTE sponsored state level Technical paper presentation "on "Emerging Trends in Electronics and Instrumentation" held at V E S Polytechnic Chembur Mumbai on 11/02/2015.
	3.	Invited as a speaker for workshop on "Simulation Software" and delivered a lecture on "Introduction to MATLAB" on 18/12/2014 for the MSBTE sponsored content updating programme conducted by Agnel Polytechnic Vashi, Navi Mumbai.
	4.	Invited as a speaker for workshop on "MATLAB Fundamental training" and delivered a lecture on Basics of MATLAB" on 10/12/2012 for the MSBTE sponsored content updating programme conducted by V. E. S. Polytechnic.
	5.	Delivered a lecture on "Introduction to Digital Signal Processing "at Fr. Rodrigues Institute of Technology, Vashi, Navi Mumbai on 19/04/2012 as a part of STTP Workshop on power Electronic Applications"
	6.	Delivered a lecture on "Applications of Signal Processing "at Don Bosco Institute of Technology, Kurla, Mumbai on 28/09/10.

	7. Delivered a lecture and conducted a laboratory session on "Basics of Image Processing in MATLAB" at the National level STTP on "Image Processing" organized at Terna Engineering College, Nerul, on 06/07/09 8. Delivered a lecture on "Fixed point Implementation of End Point Detection Algorithm "at the EXTC Lecture Series organized by EXTC dept. FCRIT, Vashi on 27/02/09 9. Delivered a lecture and conducted a laboratory session on "Image processing" at the AICTE Sponsored National Workshop on DSP and its application in Speech and Image Processing organized by EXTC dept. CRIT, Vashi, on "DSP and its Application in Speech and Image processing" on 10-7-07. 10. Delivered a lecture on "Introduction to Biometrics "at the EXTC Lecture Series organized by EXTC dept. FCRIT, Vashi on 31/08/05 11. Appointed as Auditor for the Audit of test and end semester Examination Question papers in the Dept of Electronics and Telecommunication, K J Somaiya College of Engineering, Vidyavihar. On 16th March 2018. 12. Invited as a session judge for the state level Technical quiz and paper presentation "TECHNOCRATZ – 2014", held at Agnel Polytechnic Vashi, Navi Mumbai on 16/09/2014 13. Invited as a technical judge for the state level Technical paper presentation "Eta-max 2014" held at Fr. Rodrigues Institute of Technology, Vashi, Navi Mumbai on 13/02/2014 14. Invited as a chairperson for the state level Technical quiz and paper presentation "TECHNOCRATZ – 2013", held at Agnel Polytechnic Vashi, Navi Mumbai on 21/09/2013 15. Invited as a Judge for the National level Inter collegiate Technical Paper presentation Competition "Technocratz-2010" held at Agnel Polytechnic Vashi, Navi Mumbai on 08/10/10
19.	**International Conference Technical Program Committee Member / Reviewer** 1. Reviewer of papers submitted in the field of Electronics and Telecommunication Engineering for the International Conference on Nascent Technologies in the Engineering Fields (ICNTE_2017), Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai on January 27-28,2017. 2. Reviewer of papers submitted in the field of Electronics and Telecommunication Engineering for the International Conference on Nascent Technologies in the Engineering Fields(ICNTE_2015), Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai on January 9-10,2015.
20.	**Patents** Nil