Dr Ambuja Salgaonkar is an Associate Professor at Department of Computer Science, University of Mumbai, India, 400098

Qualification: MCA, PhD (CS), MBA, MA (Eng), Kovid (Sanskrit), Advanced diplomas in music and manuscriptology, Certificate courses in Indian logic and hermeneutics; At present she is a student of MA in Pali at University of Mumbai

Internship and Collaboration opportunities: Researching novel solutions for the non-trivial problems in various domains is her passion. Committed research aspirants and interns (non-paid, no stipend basis) from any faculty / subject could explore a possibility of joining her in this journey by writing a mail to ambujas@udcs.mu.ac.in.

Current Research Interests: IKS in general and Indian mathematics, Natural language processing (Marathi, Sanskrit, Pali, Hindi and Konkani), Script processing (Indus, Grantha, Nastaliq and Modi), Computational music, Jewellery design, Biometric analysis for Forensics, Secure communication, Indigenous medicines, Non-invasive therapies, Techno-enabled inclusive education and assistive technology, Robotics, and Creative computing in specific.

Recently, she organized a workshop on non-invasive therapy (dance for Parkinson's patients) facilitated by Professor Joseph De'Souza of York University as a Sastree Indo-Canadian collaboration project; Under the GIAN scheme of GoI, she had hosted Professor Mukund Chorghade of Harvard University to engage a workshop on indigenous medicinal drugs and drugs processing.

Dr Ambuja Volunteered to be a trainer and evaluator for generating Marathi sentence corpus in Bhashini project of GoI.

मोदक-संस्कृतम्। is her on-going project for Teaching Sanskrit to differently-abled children and analysing its impact.

Her research in Pali computational linguistics has been presented in two international conferences and in a UGC CARE journal.

From January 2025, she will be facilitating a weekly on-line session on Navya-Nyaaya and its modern applications by following the lectures of Professor V N Jha.

Experience: 30+ years of teaching, research and administration in 4 Universities of Maharashtra (SNDT, SUK, SPPU and UoM)

Summary of her contributions:

Sr No	Type of Event	Count
1	Research Publications in Journal / Book (a publication on Machine translation is in the journal of IF 9.9, a publication on Robotics has been in the top cited at Elsevier)	37
2	Patents granted	4
3	Conference Presentations	90
4	Organizing Academic Events and Trainings	200

5	Participation in Academic Events and Trainings	60
6	Academic-Administration event	185
7	Project / Consultancy / Social connect	60
8	Book / Articles for Common Persons	135
9	International Technical review / Volume Editing Recently edited a Springer publication on Computational Musicology and Dramatics. Also, she contributed to 6 research articles in it.	3
	50% of her writings are on non-CS topics, Independently, 50% are in Marathi	

Education: Introduced (i) India's first MSc in Data science that has been available in Blended learning (2018), (ii) MOOC for Institute of Distance and Open Learning, UoM (2015), (iii) MOOC in MSc and PhD at UDCS (2011); Taught 2000 students in Face-to-Face, 2000 in blended and 8000 in MOOC model; Administered 1 lac students at formerly Institute of Distance and Open Learning at Uni of Mumbai.

Research: Guided 5 PhD, 2 MPhil successfully; Her research candidates have remarkable publications and patents to their credits. Over the last thirty years she has guided hundreds of Master's degree students for their dissertations and internships, including one from a University in France; Also, she guided a student from a junior college in Mumbai from taking up a research in NLP till he completes writing a research paper on his findings; Several of her students have won the prizes in various academic and research events at state and national levels.

Literature: Dr Ambuja writes with a passion for environmental and social awareness and to spread scientific temperament. She has successfully attempted various forms in Marathi: Stories in traditional style, essays, articles, plays and poetry to name a few Examples: her contribution, तिपेडी (Marathi Haiku), has been a recipient of Dr Shirish Pai award; दोह्याचे हायकू and चित्रहायकू are her yet another contributions in the domain of Marathi Haiku; दुजाची जाणीव देई पांडुरंगा and असत्य नरायणाची न-कथा are the plays on social issues; निरगांठ is a collection of her articles on gender issues and solutions, published in Divya Marathi; अद्भुतदेशी अमरी is her trans creation of the famous Alice in Wonderland in Marathi; रविकिरणांचे कवडसे is a collection of Tagore's Geetanjali translated by her in Marathi songs; एकांत is her translation of 25 poems of Lee Po; कविता कलामसरांची is a collection of her translations of the poetry of Dr APJ Abdul Kalam; गोलुची गाणी is a collection of Marathi children songs; Mumbai University Anthem translated from Sanskrit to Marathi by her is available here: https://www.youtube.com/watch?v=1kK0SGZLOeI

Connects: Shivaji University, Dr Sarvapalli Radhakrishnan Child-welfare and observation home and Bharateeya Jalasandharana Mandal, Kolhapur; Samskrita Bharatee, TCSiON, Pune; AWUV, Karnataka; RESPIN, IIScB; BMM-BizCon'22@NJ and SAPNE (Poets' club by South Asian poets of New England)