STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

<table>
<tr><td>Title</td><td>Dr.</td><td>First Name</td><td>Udayan</td><td>Last Name</td><td>Ghose</td><td rowspan="4">  </td></tr>
<tr><td colspan="2">Designation</td><td colspan="4">Professor</td></tr>
<tr><td colspan="2">School /Dept. Name</td><td colspan="4">University School of Information, Communication & Technology</td></tr>
<tr><td colspan="2">Address:</td><td colspan="4">Room No. EFR 405, E Block, GGS Indraprastha University, Sec 16C, Dwarka, Delhi – 110078.</td></tr>
<tr><td colspan="2" rowspan="3">Phone No.</td><td>Office</td><td colspan="4">011-25302719</td></tr>
<tr><td>Residence</td><td colspan="4">(optional)</td></tr>
<tr><td>Mobile</td><td colspan="4">(optional)</td></tr>
<tr><td colspan="2">Email</td><td colspan="3">1. udayan@ipu.ac.in</td><td colspan="2">2.</td></tr>
<tr><td colspan="2">Web Page (if any)</td><td colspan="5"></td></tr>
<tr><td colspan="2">Subjects Taught</td><td colspan="5">• Advanced DBMS, AI & ML, Information Theory & Coding, Object Oriented Programming, DBMS, Soft Computing, Operating Systems, Visual Programming, Distributed Computing</td></tr>
<tr><td colspan="2">Areas of Interest/ Specialization</td><td colspan="5">• AI & ML, Data Analytics, Information Theory, Soft Computing</td></tr>
<tr><td colspan="2" rowspan="4">Experience (in years)</td><td>Total</td><td colspan="4">23 Years</td></tr>
<tr><td>Industry</td><td colspan="4"></td></tr>
<tr><td>Teaching</td><td colspan="4">23 Years</td></tr>
<tr><td>Research</td><td colspan="4">11 Years</td></tr>
<tr><td colspan="2" rowspan="4">Educational Qualifications</td><td>UG</td><td colspan="4">B.Sc. (Physics Hons.), St. Xavier’s College, Ranchi</td></tr>
<tr><td>PG</td><td colspan="4">M.Sc. (Physics), Banaras Hindu University, Varanasi, M.Tech (Computer Science), BIT, Mesra, Ranchi</td></tr>
<tr><td>Doctorate</td><td colspan="4">Ph.D (IT), GGS Indraprastha University, Delhi</td></tr>
<tr><td>Any other – Diploma in IPR</td><td colspan="4"></td></tr>
<tr><td colspan="2">Research Publications in Journals (last 5 years)</td><td colspan="5">• “Bi-Modal Derivative Adaptive Activation Function Sigmoidal Feed-forward Artificial Neural Networks”, Udayan Ghose, Prof. Pravin Chandra, Akash Mishra, Sartaj S. Sodhi, Applied Soft Computing, Vol. 61, pp 983 – 994, Elsevier (2017)
• “A quantitative and text-based characterization of big data research”, Udayan Ghose, Vedika Gupta, Vivek Kumar Singh, Pankaj Mukhija,</td></tr>
</table>

	Journal of Intelligent and Fuzzy Systems 36(5): 4659-4675 (2019) • "Aspect-based sentiment analysis of mobile reviews", Udayan Ghose, Vedika Gupta, Vivek Kumar Singh, Pankaj Mukhija, Journal of Intelligent and Fuzzy Systems 36(5): 4721-4730 (2019) • "A non-polynomial, non-sigmoidal, bounded and symmetric activation function for feed – Forward artificial neural networks", Udayan Ghose, Prof. Pravin Chandra, Apoorvi Sood, International Journal of Innovative Technology and Exploring Engineering (2019), DOI: 10.35940/ijitee.L3313.1081219 • "Asymmetric sigmoidal activation function for feed-forward artificial neural networks", Udayan Ghose, Prof. Pravin Chandra, Ruchi Sehrawat, International Journal of Innovative Technology and Exploring Engineering (2019), DOI: 10.35940/ijitee.L3310.1081219 • "Tailored feedforward artificial neural network based link prediction" Udayan Ghose, Sandhya, Upasana Bisht", International Journal of Information Technology, Springer (2019), DOI: https://doi.org/10.1007/s41870-019-00362-2 • "Link Prediction Based On Deep Neural Network Using SubGraph", Udayan Ghose, Sandhya, International Journal of Advanced Science and Technology, Vol. 29, no. 05, June 2020, pp. 11213-31 (2020) • "Assessment of effectiveness of data dependent activation method: MyAct", Udayan Ghose, Sandhya, Upasana Bisht, Journal of Intelligent & Fuzzy Systems, vol. Pre-press, no. Pre-press, pp. 1-13, (2020) • "Predictive Analysis of Manpower Requirements in Scrum Projects using Regression Techniques", Udayan Ghose, Kamna Vaid, Elsevier Procedia Computer Science, (2020),DOI: 10.1016/j.procs.2020.06.038 • "Sentimental Analysis of Twitter Data with respect to General Elections in India", Udayan Ghose, Ankita Sharma, Elsevier Procedia Computer Science (2020), DOI: 10.1016/j.procs.2020.06.039 • "Revisiting Feature Ranking Methods using Information-Centric and Evolutionary Approaches: Survey", Udayan Ghose, Rashmi, Hardeo Thakur, International Journal of Sensors, Wireless Communications and Control (2021) , ISSN: 2210-3279 • "DE/EI - A New Differential Evolution Selection Operator Based on Entropy and Index for Feature Ranking: DE/EI Selection Operator", Udayan Ghose, Rashmi, International Journal of Information Retrieval Research (2020), DOI: https://doi.org/10.4018/ijirr.2020100105
Papers Published in Conference Proceedings-(last 5 years)- coauthored	• "Rule based information leveraging from business invoices", 2016 International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT), DOI: 10.1109/ICCTICT.2016.7514613, IEEE • "Effect of Activation Function Symmetry on Training of SFANNs with RPROP Algorithm", ACM - International Conference on Advances in Information Communication Technology & Computing (AICTC 2016), DOI: 10.1145/2979779.2979802, ACM • "A data reduction method based on indiscernibility and rough entropy for uncertain systems", 2017 Intelligent Systems Conference (IntelliSys), DOI: 10.1109/IntelliSys.2017.8324337, IEEE • "san_sim: Factual and efficient URL text similarity algorithm", 2017 3rd International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT),

	DOI: 10.1109/ICATCCT.2017.8389161, IEEE • "Weather forecasting using Hidden Markov Model, 2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN), DOI: 10.1109/IC3TSN.2017.8284480, IEEE • "Predicting the Popularity of Websites using Multilayer Perceptron and Extreme Learnng Machine" 2018, 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), DOI: 10.1109/ICPEICES.2018.8897340, IEEE • "Comparative Design Analysis of optimized learning rate for convolutional neural network", International Conference on Recent Trends in Materials and Devices (ICRTMD-2019) , ISBN: 978-981-33-4582-9, CSIR, Springer • "Lexicon a linguistic approach for sentiment classification", Proceedings of the Confluence 2021: 11th International Conference on Cloud Computing, Data Science and Engineering, DOI:10.1109/Confluence51648.2021.9377057, IEEE • "Sentiment Analysis for Twitter Data in Hindi Language", Proceedings of the Confluence 2021: 11th International Conference on Cloud Computing, Data Science and Engineering, DOI: 10.1109/Confluence51648.2021.9377142, IEEE
Books Authored/ BookVolume Chapters (last 5 years)-coauthored	• Advances in Computing, Control and Communication Technology – "Detecting Aspects and Opinion Polarities from Movie Reviews", 2016, ISBN 978-93-85926-20-4, Allied Publishers • Advances in Computing, Control and Communication Technology – "An Analytical Review of Sentiment Analysis on Twitter", 2016, ISBN 978-93-85926-20-4 , Allied Publishers • Advances in Intelligent Systems and Computing – "A linguistic rule-based approach for aspect-level sentiment analysis of movie reviews", 2017, DOI: 10.1007/978-981-10-3770-2_19, Springer • Networking Communication and Data Knowledge Engineering: Volume 1 – "Attribute reduction method using the combination of entropy and fuzzy entropy", 2018, ISBN 978-981-10-4584-4, Springer • Studies in Computational Intelligence – Computer and Information Science – "A Novel Differential Selection Method Based on Singular Value Decomposition Entropy for Solving Real-World Problems", 2019, ISBN 978-3-319-98693-7, Springer • Communications in Computer and Information Science – "Hybrid Entropy Method for Large Data Set Reduction Using MLP-ANN and SVM Classifiers", 2020, DOI: 10.1007/978-981-15-5827-6_5, Springer • Lecture Notes in Networks & Systems – "A New Activation Function Validated on Function Approximation Tasks", 2021, ISSN: 23673389 23673370, Springer • Lecture Notes in Networks & Systems – "An Emperical Study of Activation Functions for Function Approximation Tasks", 2021, ISSN: 23673389 23673370, Springer • Lecture Notes on Data Engineering and Communications Technologies – "Comparative Design Analysis of optimized learning rate for convolutional neural network", 2021, ISSN: 23674520 23674512, Springer • Lecture Notes in Electrical Engineering – "Comparison of various Classification Techniques on Brain Tumor Detection", 2021, ISSN:

<table>
<tr><td></td><td colspan="4">18761119 18761100, Springer
• Lecture Notes in Networks and Systems – “LegitANN: Neural Network Model with Unbiased Robustness”, 2021, ISSN: 23673389, Springer
• Communications in Computer and Information Science – “On the effects of Substitution Matrix Choices for Pairwise Gapped Global Sequence Alignment of DNA Nucleotides”, 2021, ISSN: 18650937, Springer</td></tr>
<tr><td rowspan="3">No. of Conferences</td><td rowspan="2">National</td><td colspan="2">Attended</td><td>Organized</td></tr>
<tr><td colspan="2"></td><td></td></tr>
<tr><td>International</td><td colspan="2">3</td><td></td></tr>
<tr><td rowspan="3">Research Guidance</td><td rowspan="2">Awarded</td><td>PG</td><td>M. Phil</td><td>Doctorate</td></tr>
<tr><td>50+</td><td></td><td>5</td></tr>
<tr><td>Undergoing</td><td>4</td><td></td><td>5</td></tr>
<tr><td rowspan="2">Research Projects</td><td>Completed</td><td colspan="3"></td></tr>
<tr><td>Undergoing</td><td colspan="3"></td></tr>
<tr><td>Awards & Distinctions</td><td colspan="4">Award of Excellence in Branch Counseling, IEEE - 2011</td></tr>
<tr><td>Administrative Assignments Handled</td><td colspan="4">In-charge CET Cell GGSIPU (2006 – 2019, 2021), In-charge Result, EDP, Server, (Examinations) (2013 – 2019), Associate Director (R & C) (2014 – 2019), Coordinator M.Tech Programmes, USICT (2012 – 2021)</td></tr>
<tr><td>Association with Professional Bodies</td><td colspan="4">Member IEEE</td></tr>
<tr><td>Any other Achievements</td><td colspan="4"></td></tr>
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