CURRICULUM VITAE

Name	Diganta Bhattacharyya	
Qualification	• **B.Sc Honours (Computer Science-CU)** • **B.Tech (IEE-JU)** • **M.Tech (ECE-KGEC)**	
Designation, Department and School	**Assistant Professor, Department of Electronics and Communication Engineering under School of Engineering**	
Subject teach	• Digital Electronics • Networking and Communication • Computer Architecture and Organizations • Microprocessor • Artificial Intelligence and Neural Networks • Satellite Communication • Mobile Communication • Ad-Hoc Networking • Data Structure and Algorithm • C, Java, Python • Operating System • Database Management System • Analog and Digital Communication • Digital System Design • Design and Analysis of Algorithms	
Research Interest	**Space Science and Communication using AI/ML**	
Experience	1. Institution Name : Swami Vivekananda University Type: Assistant Professor Department of Electronics & Communication Engineering Duration: February 2024 to Present 2. Institution Name: Brainware University Type: Assistant Professor Department of Electronics & Communication Engineering Duration: August 2023 to February 2024 3. Institution Name : Kalyani Government Engineering College Type: Teaching Assistant Department of Electronics & Communication Engineering Duration: 2019 to 2020 (At the time of M.Tech Course) 4. Company Name: Sandree Home Pvt Ltd. Kolkata	

	Project Name: www.sandreehome.com Type: Website Development & Software Packages Duration: May 2016-March 2018 Skill: VB.NET, HTML5, CSS3, PHP
Publications	1. Ashique, M. and Bhattacharyya, D., 2024. Chapter-10 Advanced Knowledge Networks: Enhancing Representation with Semantic Relationship Analysis. *Synergy in Science and Engineering: An Integrative Approach*, p.89. 2. Das, D.J. and Bhattacharyya, D., 2024. Chapter-9 Adaptive Curriculum Strategies for Continuous Learning in Neural Networks. *Synergy in Science and Engineering: An Integrative Approach*, p.83. 3. Kumari, N. and Bhattacharyya, D., 2024. Chapter-13 Reducing Carbon Emissions in Model Training: Eco-Conscious Machine Learning. *Synergy in Science and Engineering: An Integrative Approach*, p.107. 4. Mondal, M. and Bhattacharyya, D., 2024. Chapter-11 Self-Awareness in AI: Meta-Reasoning Techniques for Autonomous Decision-Making. *Synergy in Science and Engineering: An Integrative Approach*, p.95. 5. Pramanick, S. and Bhattacharyya, D., 2024. Chapter-12 Hybrid Quantum Neural Networks: Optimizing Computational Performance in Deep Learning. *Synergy in Science and Engineering: An Integrative Approach*, p.101. **PATENT** 1. **Title of the Invention:** Blockchain crowdfunding Platform **Application No:** 202431091485 A **Publication Date:** 29/11/2024 2. **Title of the Invention:** Youtube Clone Video Library **Application No:** 202431093720 A **Publication Date:** 06/12/2024 3. **Title of the Invention:** Crime pattern analysis and rate prediction **Application No:** 202431093827A **Publication Date:** 06/12/2024 4. **Title of the Invention :** Data analysis using machine learning on geo location data **Application No:** 202431094195 A **Publication Date:** 06/12/2024 5. **Title of the Invention :** Face mask detection in real time **Application No:** 202431095248 A **Publication Date:** 13/12/2024 6. **Title of the Invention :** A Heart arrhythmia prediction using Artificial neural network **Application No:** 202431095820 A **Publication Date:** 13/12/2024 7. **Title of the Invention :** Heart disease prediction from symptom analysis using machine learning **Application No:** 202431095834 A **Publication Date:** 13/12/2024 8. **Title of the Invention :** Anti-fraud system for credit card transaction using machine learning & data science **Application No:** 202431096209 A

	Publication Date: 20/12/2024 9. **Title of the Invention:** Precision in Estimation of Crop Yields using Machine Learning **Application No:** 202431095882 A **Publication Date:** 20/12/2024 10. **Title of the Invention:** Analyzing customer bank churn using ensemble learning models **Application No:** 202431096223 A **Publication Date:** 20/12/2024 11. **Title of the Invention:** Plant disease detection application **Application No:** 202431096218 A **Publication Date:** 20/12/2024
Other salient features	• **PGET-2018 2nd Rank in AEIE Stream and Common Rank-116** • **Program Coordinator of ECE Department (SVU)** • **Placement In Charge of CSE Department (SVU)** • **Exam Coordinator of ECE Department (SVU)** • **Editor Journal of Advanced Computer Applications (SVU)** • **Editor-in-Chief: Journal of Innovation and Advancement in Electronic Frontier (SVU)**
Symposium/Workshop/ Conference/Seminar/Webinar	• **Completed IBM Cognos Analytics V11.1.x Reporting Essentials** • **Ramco Institute of Technology** || One day National Level Online Workshop- **Journal Paper Writing** • **IEEE Lecture Talk:** "Architecture of a mixed signal processor for AI engine" • **IEEE EDS Distinguished Lecture Talk Program** on "Fully Printable and Autonomously Powered Electronic Nodes for the Internet of Everything "
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