

Name of Faculty	G Ratan Kumar		
Designation	Assistant Professor		
Nature of Job/Appointment	Contract		
Date of Joining	21-09-2026		
E-mail	ratankumarg_iotcsbct@cbit.ac.in		
Education Qualifications	Name of the Degree	Class	
Ph. D	-	-	
PG	M.Tech (CSE)	First with Distinction	
UG	B.Tech (CSD)	First	
Work Experience			
Teaching	0 Years		
Research	0 years		
Industry	--		
Others	--		
Area of Specialization	Machine Learning, Deep Learning, Image & Audio Processing		
Professional Memberships	--		
Responsibilities held at Institution Level	--		
Responsibilities held at Department Level	--		
Research Guidance	--		
Awards Received	స్వయం తేజస్విన్ భవ -- 1979		
Courses Handled at Under Graduate / Post Graduate Level.	--		
No. of Papers Published	National Journals – 0	International Journals – 0	
	National Conference – 0	International Conference – 01	

Projects Carried out	Android Malware Detection Using Machine Learning - Developed a hybrid static-dynamic Android malware detection framework using machine learning. Performed permission-based static analysis and runtime behavioral analysis, with Gradient Boosting based feature selection. Evaluated KNN, Random Forest, Decision Tree, and Naïve Bayes classifiers and developed a Streamlit-based interface for APK analysis. Voice-Based Emotion Detection Using Deep Learning - Developed a CNN-based speech emotion recognition system for classifying emotions from audio. Extracted MFCC, Chroma, Mel Spectrogram, and Spectral Contrast features using Librosa and implemented the model using TensorFlow/Keras.
Patents	--
Technology Transfer	--
Invited Speaker	--
No. of Books/Chapter Published with details	--
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (Attended and/or Organized).	Two-Week Summer School – “Generative AI and Large Language Models” – Actively participated in a two-week online Summer School on <i>Generative AI and Large Language Models</i>, organized by the Department of Computer Science and Engineering, CBIT, in association with the IEEE Hyderabad Section Computer Society Chapter, held from 19th to 30th May 2025. Certificates International One-Week Workshop – “AI & ML for Societal Impact: Healthcare and Agricultural Applications” – Successfully participated in an international one-week online workshop on <i>AI & ML for Societal Impact: Healthcare and Agricultural Applications</i>, organized by the Department of Computer Science and Engineering, CBIT, in association with the ACM Hyderabad Deccan Professional Chapter, held from 5th to 9th January 2026
Details of Conferences (National and International)	Conference: <i>A Comprehensive Review of Machine Learning-Based Android Malware Detection: Static, Dynamic, and Hybrid Approaches</i> – Presented at ICSICE-2026; publication process under progress. Journal: <i>Hybrid Android Malware Detection Using Machine Learning</i> – Manuscript submitted to IEEE Transactions on Dependable and Secure Computing (IEEE TDSC); under review.