

REPORT

"Machine Learning and its Applications"

The Department of Computer Science and Department of Computer Application at St. Xavier's college Burdwan organized a significant seminar on **"Machine Learning and its Applications"** held on June 20, 2024, at 11:30 am. The seminar featured Prof. Sunil Karforma, a distinguished academic serving as the Dean of the Faculty Council of PG Studies in Science at the University of Burdwan and as a Professor in the Department of Computer Science. Prof. Karforma's extensive expertise in machine learning set the stage for an in-depth exploration of this pivotal field within contemporary computer science.



Inauguration of the session with Lamp Lighting

Prof. Karforma began by elucidating the fundamental principles of machine learning, emphasizing its transformative capability in enabling computers to learn from data patterns and make decisions or predictions autonomously. He covered essential concepts such as supervised learning, where models are trained on labelled data to predict outcomes; unsupervised learning, which uncovers hidden patterns in unlabelled data; and reinforcement learning, which involves learning through trial and error based on rewards or penalties.



Father Principal's Message



Prof. Karforma's insightful presentation

Throughout the seminar, Prof. Karforma provided concrete examples and case studies to illustrate the practical applications of machine learning across various domains. He showcased how these algorithms are leveraged in healthcare for disease diagnosis and personalized treatment plans, in finance for fraud detection and risk assessment, and in autonomous systems for decision-making in dynamic environments. These examples underscored the versatility and efficacy of machine learning in addressing complex real-world challenges.

The interactive session that followed allowed participants to engage directly with Prof. Karforma, fostering discussions on the ethical implications of machine learning technologies, the societal impacts of automation, and the future directions of the field amidst rapid technological advancements. Participants actively exchanged ideas, sharing perspectives on how to responsibly harness the potential of machine learning while mitigating risks associated with data privacy and algorithmic biases.



In conclusion, the seminar concluded with a reflection on the profound impact of machine learning on industry innovation and computational capabilities. Prof. Karforma's insightful presentation not only deepened attendees' understanding of machine learning methodologies but also highlighted the ongoing research opportunities and challenges in advancing the field. The Department of Computer Science and Application expresses its sincere appreciation to Prof. Sunil Karforma for his invaluable contributions and to all participants for their enthusiastic engagement, ensuring a successful and enlightening seminar experience.



St. Xavier's College, Burdwan

Department of Computer Science and Application

Organizes a seminar on
Machine Learning and its Applications



Prof. Sunil Karforma

Dean, Faculty Council of PG Studies in Science, &
Professor, Department of Computer Science,
The University of Burdwan



June 19th, 2024
Time: 2:00pm



Seminar Hall,
Academic Building, SXCB

