Divine Blessings

His Holiness Jagadguru Padmabhusana
Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji
Founder President, Sri Adichunchanagiri Shikshana Trust

Chief Patron

His Holiness Jagadguru
Sri Sri Sri Dr. Nirmalanandanatha Mahaswamiji
President, Sri Adichunchanagiri Shikshana Trust

Patron

Poojya Sri Sri Sowmyanatha Swamiji
Secretary, Sri Adichunchanagiri Shikshana Trust

Program Chair

Dr. G. T. Raju
Director, BGSCET

Dr. Ravikumar G. K.
Principal, BGSCET

Convenors

Dr. Jalaja G.
HoD, Dept. of AI & ML

Dr. Parvathi C.
HoD, Dept. of AI & DS

Program Co-ordinators

Dr. Chandini A G, Asst. Professor, AI &DS

Dr. Manjula L, Assoc. Professor, AIML

Mrs. Mamatha Jadhav, Asst. Professor, AI &DS

Ms. Sushma M, Asst. Professor, AI &DS

Ms. Sindhu G, Asst. Professor, AI &DS

Mr. Manjunatha E C, Asst. Professor, AI &DS

Vandana S Sardar, Asst. Professor, AIML

Pratyaksha S, Asst. Professor, AIML

Organised by

Department of Artificial Intelligence and Data Science
&
Department of Artificial Intelligence and Machine Learning

BGS College of Engineering and Technology

Mahalakshmipuram, Bengaluru-560086
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SCAN TO PAY

BGS College of Engineering and Technology

(Approved by AICTE, New Delhi and Affiiated to VTU, Belagavi)
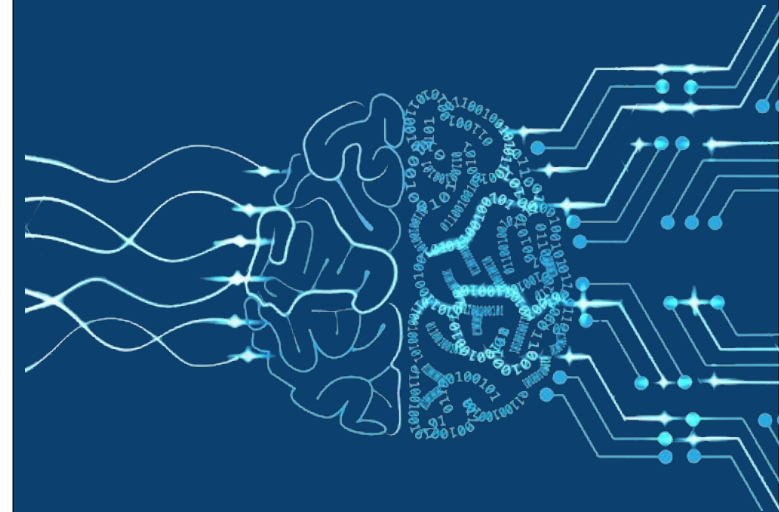Mahalakshmipuram, Bengaluru-560086

in association with
Mevi Technologies
Bengaluru

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

is organising

FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON

"Intelligent Systems with Deep Learning and Reinforcement Learning"

📅 **August 18th to 22nd, 2025**

🕐 **9.30 am to 4.30 pm**

📍 **BGSCET Seminar Hall**

ABOUT THE INSTITUTION

BGS College of Engineering and Technology (BGSCET), a new Engineering College with 5 market-demanding / employable / emerging (CS, IS, AI&ML, AI&DS, Design) UG courses in Engineeringand Technology, established by BGSKH Education Trust(R.), A unit of Sri Adichunchanagiri Shikshana Trust(SAST) under the ambit of Sri Adichunchanagiri Mahasamsthana Mutt, a well-known philanthropic organization in Karnataka at CA Site no. 6 & 7, 3rd Main, Pipeline Road, 2nd Phase, 2nd Stage, Mahalakshmipuram, West of Chord Road, Bengaluru -560 086, Karnataka, a prime location having potential aspiring candidates from surrounding areas with good connetivity. The BGS College of Engineering and Technology has a clear vision and objective, in the quest for being an outstanding centre for learning and development of human resource, which is conducive to the fast changing national and international situations adhering to consistent policy of recruiting highly qualified teachers. SAST was established in the year 1974 with the blessings of his holiness Bhairavaikya Paramapoojya Jagadguru Padmabhushan Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji.

VISION

"Creating Competent IT Professionals With Core Values For the Real World."

MISSION

▸ Providing Students with a Sound Knowledge in IT Fundamentals.
▸ Exposing Students to Emerging Frontiers in various Domains of IT enabling Continuous Learning.
▸ Promoting Excellence in Teaching, Training, Research and Consultancy.
▸ Developing Entrepreneurial acumen to venture into innovative areas of IT.
▸ Imparting value-based Professional Education with a sense of Social Responsibility.

ABOUT THE DEPARTMENTS

The department of **Artificial intelligence and Machine learning(AI&ML)** is established during the academic year 2022-23 with an intake of 60.AI & ML focuses on collecting, categorizing, strategizing, analyzing and interpreting data. AI & ML is an exceptional field that focuses on the growth and implementation of embedded systems, such as robotics and IoT applications. It goes beyond by encompassing the principles of machine learning and deep learning to construct models that address diverse computational and real-world business challenges.

The department of **Artificial Intelligence and Data Science (AI&DS)** is established during the academic year 2022-23 with an intake of 60. Is a new branch of study that deals with scientific methodologies, process-es, and techniques drawn from different domain like statistics, cognitive science, and computing and information science to extract knowledge from structured data and unstructured data.

This knowledge is applied in making various intelligent decisions in business applications. AI&DS focuses on collecting, categorizing, strategizing, analyzing and interpreting data.

OBJECTIVES OF FDP

The Faculty Development Program (FDP) on Deep Learning and Reinforcement Learning aims to equip educators with the knowledge and skills to effectively teach and utilize these advanced AI techniques. These programs typically cover foundational concepts, algorithms, and practical applications of both deep learning and reinforcement learning. Participants gain hands-on experience and learn how to integrate these technologies into their teaching and research. Key aspects of an FDP on Deep Learning and Reinforcement Learning :

▸ **Deep Learning Fundamentals** - FDPs often start with the basics of deep learning, including neural networks, convolutional neural networks (CNNs), and recurrent neural networks (RNNs).

Reinforcement Learning Fundamentals:The programs also cover reinforcement learning, including concepts like agents, environments, rewards, and different learning algorithms. Deep Reinforcement

▸ **Learning** - A core component is often the combination of deep learning and reinforcement learning, known as deep reinforcement learning (DRL), which is used in complex decision-making tasks.

▸ **Applications** - The FDPs explore various applications of both deep learning and reinforcement learning across different domains like computer vision, natural language processing, robotics, and game playing.

▸ **Hands-on Experience** - Participants usually engage in practical exercises and projects to solidify their understanding and gain practical experience with deep learning and reinforcement learning frameworks and tools.

▸ **Latest Trends** - FDPs often highlight the latest advancements and research trends in these fields.

▸ **Integration into Teaching and Research** - The ultimate goal is to enable educators to integrate these technologies into their teaching practices and research projects.

Specific topics that might be covered in an FDP:

▸ **Deep Learning Algorithms** - CNNs, RNNs, LSTMs, Autoencoders, etc.

▸ **Reinforcement Learning Algorithms** - Q-learning, SARSA, Deep Q-Networks, Policy Gradients, etc.

▸ **Deep Reinforcement Learning Algorithms** - DQN, DDPG, PPO, etc.

▸ **Tools and Frameworks:** TensorFlow, PyTorch, Keras, etc.

▸ **Applications in specific domains** - Computer vision, natural language processing, robotics, game playing, etc.

Who can attend ?

Faculty Members, Researchers, PG Students, Industry Professionals

MODE OF FDP

The sessions will be held in an Hybrid Mode which includes Virtual /Offline/Online - MS Teams Platform.

Resource Person

Mrs. Megha B S

Co-Founder, Mevi Technologies LLP

Registration Link :

https://forms.gle/cHAdU1WySsSJ35Dq7

REGISTRATION FEES : Rs. 399/-

Program Schedule

Day 1 : Introduction to Deep Learning & Model Workflow

Day 2 : Deep Neural Networks (DNNs) & Classification

Day 3 : CNNs & Image Classification

Day 4 : Training Deep Networks & Architecture Optimization

Day 5 : RNNs & Sequential Data (Text & Time Series)