Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati- 413133

Department of Computer Engineering

Faculty Development Program (FDP) Report

Topic: *Artificial Intelligence and Green Skills*

Program Details:

Particular	Details
Organized by	Department of Computer Engineering, VPKBIET, Baramati
In Association With	Edunet Foundation
Resource Person	Mr. Sagar Yadav (Expert Trainer, Edunet Foundation)
FDP Coordinator	Dr. Santaji Shinde
Dates	7th July 2025 to 12th July 2025
Mode	Offline
Venue	Computer Center, Department of Mechanical Engineering, VPKBIET, Baramati

Objective:

To empower faculty members with hands-on knowledge and practical experience in Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) technologies, while introducing sustainable practices through green computing tools and frameworks.

Brief Report:

The Department of Computer Engineering at Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology (VPKBIET), Baramati organized a One-Week Faculty Development Program (FDP) on *"Artificial Intelligence and Green Skills"* in association with

Edunet Foundation. The FDP was conducted from 7th July to 12th July 2025, coordinated by Dr. Santaji Shinde, and received the esteemed guidance of Principal Dr. S. B. Lande and HoD Dr. Arvind Jagtap.

The sessions were led by Mr. Sagar Yadav, expert trainer from Edunet Foundation. His well-structured modules provided in-depth theoretical knowledge and hands-on training on current AI and ML techniques, tools, and frameworks. The FDP also emphasized the integration of green skills, encouraging efficient and ethical use of technology.

Day-wise FDP Session Plan:

Day	Topics Covered
Day 1	Basics of Python programming; Introduction to Pandas and NumPy libraries
Day 2	Dataset operations; Data visualization using Matplotlib; Histogram and Bar plots
Day 3	Machine Learning models: Linear Regression, Polynomial Regression, Logistic Regression
Day 4	Evaluation tools: Confusion Matrix, Line Plot, Pair Plot, Correlation Matrix, Heatmap; Algorithms: Random Forest, Support Vector Classification
Day 5	K-Means Clustering; Deep Learning with Keras; Installation of TensorFlow and Scikit-learn; Neural Networks;
Day 6	Introduction to Hugging Face Transformers, Diffusers, Accelerate, Gradio, Safetensors; Building a Text-to-Image Generator using Gradio and Stable Diffusion Model

Key Tools & Libraries Used:

Category	Tools / Libraries
Programming Language	Python
ML Libraries	Scikit-learn, TensorFlow, Keras, Pandas, NumPy
Visualization Tools	Matplotlib, Seaborn (Heatmap, Line Plot, Pair Plot)

Category	Tools / Libraries
AI Tools	Hugging Face Transformers, Diffusers, Accelerate, Safetensors, Gradio

Outcomes & Benefits:

- Faculty members received practical training in AI/ML/DL concepts and evaluation techniques.

- Gained insights into green computing practices and efficient use of open-source AI tools.

- Developed the ability to integrate modern AI solutions such as text-to-image generation in academic and research settings.

- Encouraged active participation in adopting sustainable, ethical, and cutting-edge technologies in teaching and student projects.

The One-Week Faculty Development Program proved to be a transformative learning experience for the participating faculty. By combining technical content with emerging green technologies, the FDP successfully met its objectives of skill development and sustainable digital learning.

The program's success was driven by the dedicated efforts of FDP Coordinator Dr. Santaji Shinde, the constant encouragement of Principal Dr. S. B. Lande, and the continuous support of HoD Dr. Arvind Jagtap. The Department of Computer Engineering expresses sincere gratitude to Edunet Foundation and all participants for making this initiative a grand success.

Vidya Prathishthan's
Kamalnayan Bajaj Institute of Engg.& Tech. Baramati
Department of Computer Engineering

Attendance Sheet for FDP on Green Skills and Artificial Intelligence AI

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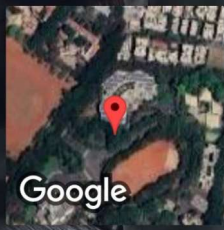**Photo Gallery:**

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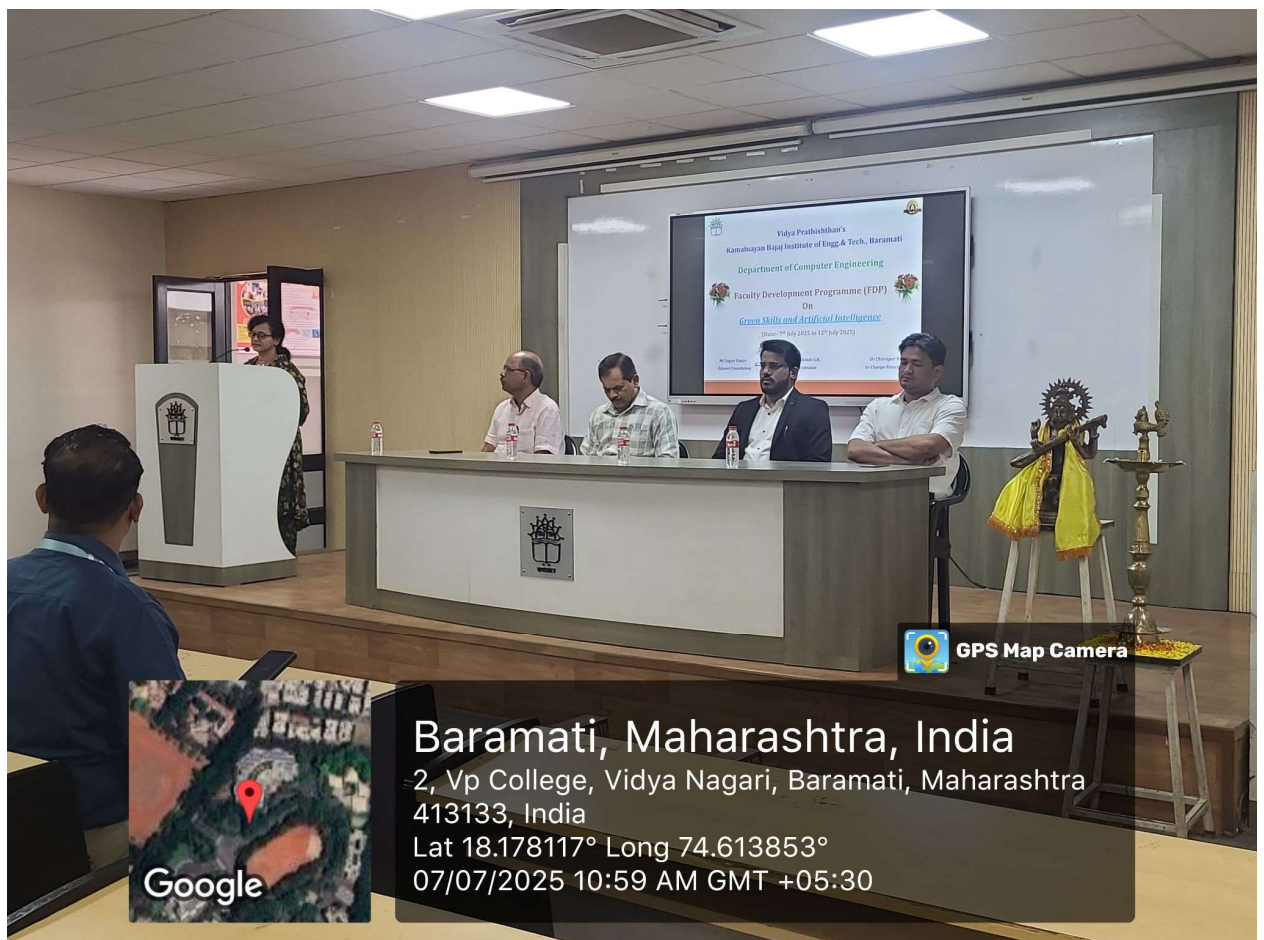413133, India
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5JF7+PXR, VP College, Vidya Nagari, Baramati, Maharashtra
Lat : 18.174952 Long : 74.615338
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