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MONTHLY E-NEWSLETTER

MACET MYSTICA

MAULANA AZAD COLLEGE OF ENGINEERING & TECHNOLOGY

EDITORIAL

The academic journey is fraught with challenges, and perhaps one of the most pervasive is the pressure associated with examinations. Examinations provide a standardized method for assessing students, ensuring a consistent benchmark for their knowledge and skills. This uniformity is essential for educational institutions to maintain a fair and objective assessment process. Exams necessitate effective time management and discipline, instilling valuable skills that are crucial in various aspects of life. The ability to organize thoughts, prioritize tasks, and work efficiently under time constraints are attributes cultivated through the examination process.

Moving away from a sole reliance on high-stakes exams, educators can explore continuous assessment methods. This approach allows for a more holistic evaluation of a student's progress, considering their growth over time rather than a single performance.

Assessments should reflect real-world scenarios, allowing students to apply their knowledge and skills in practical situations. This not only prepares them for future challenges but also fosters a deeper understanding of the subject matter.

EDITOR

SAIMA FARZEEN

EDITORIAL TEAM

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AI & ML Algorithms Learning Techniques

Hasibul Hasan Mansoori, Department of CSE

Learning machine learning algorithms can be made easier by following a structured approach and utilizing available resources. Here's a step-by-step guide to help you learn machine learning algorithms more easily:

1. Understand the Basics: Begin with a solid foundation in mathematics, particularly ***linear algebra, calculus, and probability***. Many machine learning algorithms are based on these mathematical concepts.

2. Learn Programming: Choose a programming language commonly used in machine learning, such as Python, and become proficient in it. Python has extensive libraries and frameworks like ***scikit-learn, TensorFlow, and PyTorch*** that are widely used in machine learning.

3. Explore Online Courses: Take advantage of online courses on platforms like ***Coursera, edX, Udacity, and Khan Academy.*** Courses such as ***Andrew Ng's "Machine Learning"*** on Coursera provide a strong introduction to machine learning concepts.

4. Read Books and Tutorials: Refer to books and tutorials that provide clear explanations of machine learning algorithms. ***"Introduction to Machine Learning with Python" by Andreas C.*** Müller and Sarah Guido is a good resource for practical learning.

5. Hands-On Coding: Practice coding regularly. Implement algorithms from scratch and work on coding exercises. Hands-on experience is crucial for solidifying your understanding.

6. Use Interactive Platforms: Platforms like ***Kaggle*** *offer datasets and competitions where you can apply machine learning algorithms to real-world problems.* This hands-on experience can enhance your skills.

7. Follow Online Documentation: Refer to the official documentation of machine learning libraries (e.g., scikit-learn, TensorFlow, PyTorch). Documentation often provides clear explanations, examples, and best practices for using algorithms.

8. Watch Video Tutorials: Video tutorials can be helpful in visualizing concepts. Platforms like YouTube have numerous tutorials on machine learning algorithms.

9. Join Online Communities: Engage with online communities such as ***Stack Overflow, Reddit***, and LinkedIn groups. Participating in discussions and asking questions can provide valuable insights.

10. Work on Projects: Apply your knowledge by working on small projects. Start with simple datasets and gradually move on to more complex problems. This practical experience is invaluable.

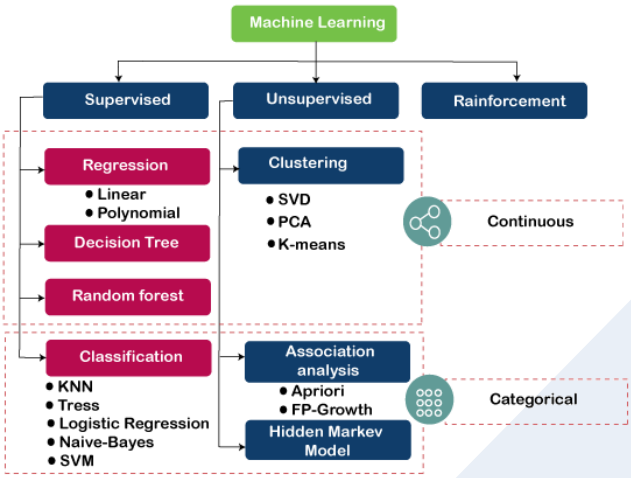
11. Understand Algorithm Implementations: Focus on understanding how algorithms work under the hood. Implement basic algorithms yourself to deepen your understanding.

12. Visualize Algorithms: Use visualization tools and techniques to understand how algorithms manipulate data. Visualization can make complex concepts more accessible.

13. Learn from Mistakes: Expect challenges and mistakes along the way. Learning from errors is an essential part of the process. Analyze what went wrong and iterate on your solutions.

14. Stay Curious and Updated: Machine learning is a dynamic field. Stay curious, follow research papers, attend webinars, and keep up with the latest advancements.

Remember that learning machine learning is a gradual process, and patience is key. By combining theoretical understanding with hands-on practice, you can make the learning journey more manageable and enjoyable.



News Update

Webinar on Python

Maulana Azad College of Engineering and Technology, Patna in association with **DUCAT** organized a **Webinar on "Python" on 6th November' 23.** The webinar was open for Btech. students of all branches. The resource person for the event was **Miss Pratigya Singh.**

Faculty Corner

A Fusion of Technology & Fashion

Mohammad Raza, Asst. Professor, EEE Department

Infineon technologies AG has collaborated with Adidas AG to introduce the lighting shoe. The Adidas NMD S1 shoe equipped with advanced semiconductor technology detects environmental music & rhythms to create customizable LED lighting display. It uses XENSIV MEMS microphones to capture audio signals, processed by a PSoC microcontroller & transformed in to vibrant LED Illumination. This integration show cases the fusion of technology and fashion, Where the Infineon lighting shoe prototype highlights the potential of semiconductor technology

The shoe also incorporates EZ-PD BCR technology for USB-C power delivery charging and is powered by efficient OptiMOS power MOSFTES. All these technological elements are seamlessly integrated in to the original Adidas NMD S1 design ensuring that the shoe maintains its style and comfort.

FDPs / Research Papers

ECE Department

Mr. Md. Nadeem Enam

- Participated in Orientation Webinar on "**Full Stack Developer"**, organized by DHISTER, on 9th Oct. 2023.
- Successfully Completed **"Identify Threads Behavioral Analytics** " conducted by Microsoft, on 10th Oct.,2023.
- Successfully Completed **"Remediate Security Alerts Using Microsoft Defender for Cloud"** conducted by Microsoft, on 10th Oct. 2023.
- Successfully Completed **"Introduction to Microsoft 365 Thread Protection "** conducted by Microsoft, on 10th Oct. 2023.
- Successfully Completed **"Microsoft PowerBI DataAnalyst "** conducted by Microsoft, on 15th Oct. 2023.
- Successfully Completed 5 days **"National level Online Teachers Training Program"** organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 2nd Oct. to 6th Oct. 2023**.**
- Successfully Completed **"Microsoft Azure AI Fundamentals "** conducted by Microsoft, on 15th Oct. 2023.
- Participated in One week FDP on "**R Programming"**, organized by NITTTR, Kolkata on 9th Oct. to 13th Oct. 2023.
- Successfully Completed "**The ABC of Accreditations (NAAC)**" organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 28th Sept. to 30th Sept. 2023**.**
- Successfully Completed 5 days "**National level Online Teachers Training Program**" organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 6th Nov. to 10th Nov. 2023**.**
- Participated in One week FDP on "**Innovation & Startup in Higher Education Institutions"**, organized by NITTTR, Kolkata from 30th Oct. to 3rd Nov. 2023.
- Successfully Completed "**Designing & Implementing Microsoft AZURE AI Solutions**" conducted by Microsoft, on 21st Nov. 2023.
- Successfully Completed "**Microsoft Power Platform APP Maker** " conducted by Microsoft, on 24th Nov.,2023.

Civil Engineering Department

Mr Md. Ehraz Akhtar

- Participated in 3 Days Online FDP on "The ABC of Accreditations (NAAC)" organised by the Association of Muslim Professionals (AMP) held on 28th September to 30th September 2023.
- Participated in 5 Days Online FDP on 3rd Teachers Training Program "Embracing Technological Advancements for Dynamic Teaching" organised by Association of Muslim Professionals (AMP) from 2nd October to 6th October 2023.

FDPs / Research Papers

Mechanical Engineering Department

3 days national level FDP on "*The ABC of Accreditation (NAAC)*" organized by Association of Muslim Professionals (AMP) in collaboration with Maulana Azad University (Jodhpur) from 28th to 30th September 2023 has been completed by:

- Dr. Syed Shahbaz Anjum
- Mrs. Saima Farzeen
- Dr. Naushad Hasin Khan

Mrs. Saima Farzeen

- 5 days national level "***Online Teacher Training Program***" organized by Association of Muslim Professionals in collaboration with Maulana Azad University (Jodhpur) from 2nd – 6th October 2023 has been completed by:

Computer Science & Engineering Department

Successfully Completed 3 days FDP on "The ABC of Accreditations (NAAC)" organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 28th Sept. to 30th Sept. 2023.

- Mr. Mazhar Eqbal
- Dr. Md. Sadruddin Ahmad

Participated in One week FDP on "R Programming", organized by NITTTR, Kolkata on 9th Oct. to 13th Oct. 2023.

- Mr. Rakesh Ranjan
- Mr. Hasibul Hasan Mansoori
- Dr. Md. Sadruddin Ahmad

Successfully Completed 5 days "National level Online Teachers Training Program" organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 2nd Oct. to 6th Oct. 2023.

- Mr. Hasibul Hasan Mansoori
- Dr. Md. Sadruddin Ahmad

Mr. Hasibul Hasan Mansoori

- Participated in FDP on "**Python Basic**", organized by DYPIMS in association with IACSD Akurdi, PUNE, on 8th Oct. 2023.

Dr. Md. Sadruddin Ahmad

- Successfully Completed 5 days "**National level Online Teachers Training Program**" organised by the Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur 6th Nov. to 10th Nov. 2023**.**

Maulana Azad College of Engineering & Technology
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