EASWARI ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

BHARATHI SALAI, RAMAPURAM, CHENNAI 600089

DEPARTMENT OF CSE

CONNECTRIX

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EASWARI ENGINEERING COLLEGE

AUTONOMOUS

COMPUTER SCIENCE AND ENGINEERING

VISION

To impart quality education in the field of computer science and engineering and to provide graduates with technical skills enabling them to contribute to the society by solving real world problems and to become a centre of excellence for advanced computing.

NEWSLETTER
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MISSION

M1. To provide strong foundation in computer science and engineering and in problem solving techniques to become successful professionals in the field of computing and prepare them for higher education.

M2. To provide students with latest skills in the field of computer science and engineering and to realize the importance of life-long learning.

M3. To produce graduates with the ability to participate in interdisciplinary collaborations and apply recent computing tools and technologies in new domains and industry.

M4. To produce graduates capable of ethically and responsibly approaching and committing themselves to the social impact of computing.

M5. To prepare students to communicate effectively and exhibit leadership qualities to work on diverse project teams.

M6. To provide research environment for students and faculty to undertake inter-disciplinary research in emerging areas.

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PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1

Graduates will possess the ability to think logically and have capacity to understand technical problems and to design optimal solutions for a successful career in industry, academia and research.

PEO 2

Graduates will have foundation in mathematical, scientific and computer science and engineering fundamentals necessary to formulate, analyze and solve engineering problems.

PEO 3

Graduates will have the potential to apply their expertise and current technologies across multiple disciplines to solve real world challenges and research issues.

PEO 4

Graduates will have the ability to work as a team and will be able to promote the design and implementation of products and services with an understanding of its impact on economical, environmental, ethical, and societal considerations through their strong interpersonal skills, leadership quality and entrepreneurial skills.

PEO 5

Graduates will possess an urge to learn continuously and to be responsive to the demands of the progressive industrial world by carrying out researches in frontier areas of computer science and engineering.

PROGRAMME SPECIFIC OUTCOMES

PSO 1

Analyze , design and develop computing solutions by applying foundational concepts of computer science and engineering.

PSO 2

Apply software engineering principles and practices for developing quality software for scientific and business applications.

PSO 3

Adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/ novel problems.

PROGRAMME OUTCOMES

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PLACEMENTS

S.No	LPA	NAME	COMPANY NAME
1	7.2	Trivikram V L	TCS Digital
2	7.2	Sripriya T	TCS Digital
3	3.6	Avanthika M	TCS NINJA

STUDENT ACHIEVEMENTS

Our II CSE B students, Kevin and Monish Kumar have participated in paper presentation competition at Kings Engineering college, and won 1st prize.

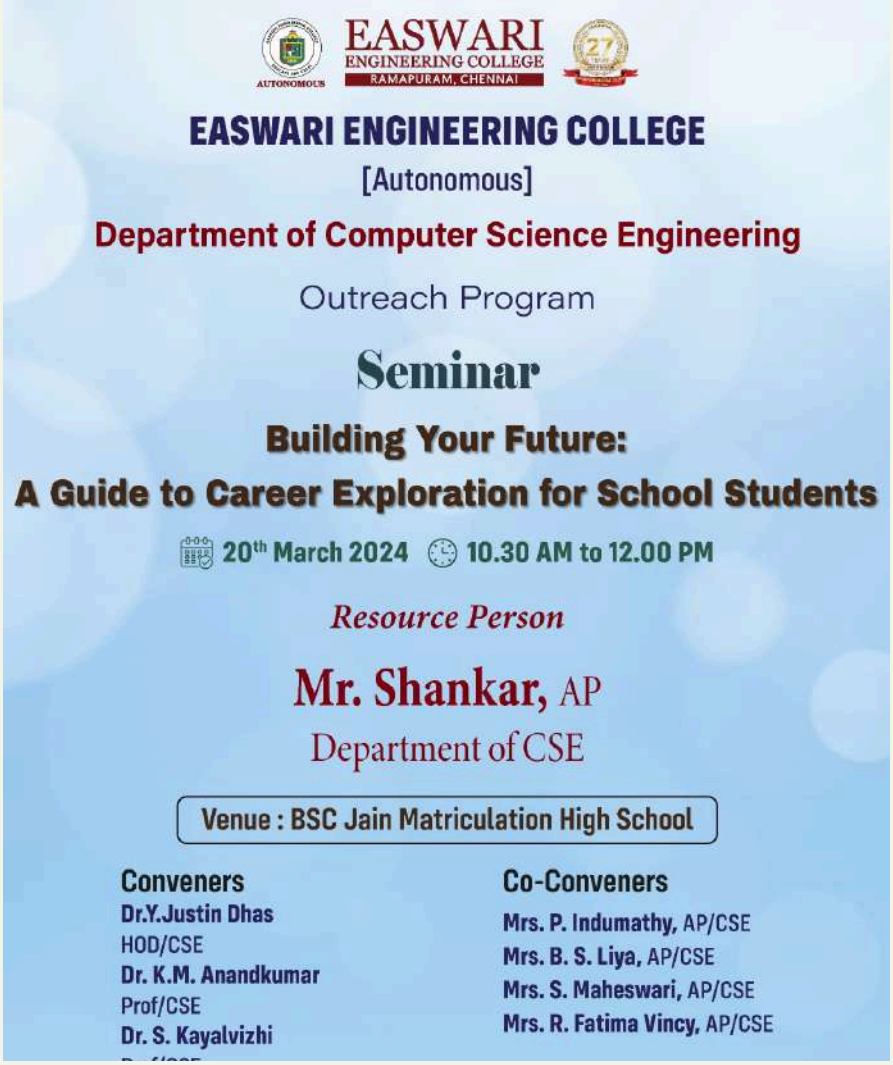
TECH TALKS

A tech talk in computer science on infosys Springboard an infosys digital literacy initiative was given by Ms.Pruthvi on 07.03.2024.

TECH TALKS

On 19.03.2024 a tech talk was given by MR.Abdul Muthalif in which Strategy and Design was discussed in a broad range of topics along with the future of strategy an design intergrated with artificial intelligence

SEMINARS



On 20.03.2024 a seminar on Building Your Future:A Guide to career exploration for school students was given in BSC Jain Matriculation High School. this was cordinated by MR.Shankar of the computer science department

SEMINAR

A Seminar on GlobalEnrol-Opportunities with Ease was conducted on 18.03.2024 a panel that consisted of Ms.Shruthi,Mrs.Sasiakala,Mr.Ramji,Mr.Adebayo , Mr.Aswin and Mr.Vairabala.

EVENTS

on 16.03.2024 Channel surfing was conducted in the talentia offstage event in which computer science department won 1st place.

ARTICLE

Title: Revolutionizing Healthcare: The Role of Machine Learning in Improving Patient Outcomes

In recent years, the intersection of machine learning and healthcare has sparked a revolution, offering unprecedented opportunities to enhance patient care, optimize resource allocation, and advance medical research. Leveraging vast amounts of data, machine learning algorithms are being deployed to extract valuable insights, predict patient outcomes, and personalize treatment plans. This article explores the significant impact of machine learning in healthcare, focusing on key applications and the transformative potential it holds.

Enhanced Diagnostics and Early Detection:

Machine learning algorithms are adept at recognizing patterns within medical data, enabling early detection and accurate diagnosis of various diseases. For instance, in radiology, deep learning models can analyze medical images such as X-rays, MRIs, and CT scans to identify abnormalities with remarkable precision. By assisting radiologists in interpreting images, these algorithms facilitate early detection of conditions like cancer, strokes, and cardiovascular diseases, leading to timely interventions and improved patient outcomes.

ARTICLE

Personalized Treatment Plans:

One of the most promising applications of machine learning in healthcare is the development of personalized treatment plans. By analyzing patient demographics, genetic profiles, medical history, and lifestyle factors, algorithms can recommend tailored interventions that optimize efficacy and minimize side effects. For example, in oncology, machine learning models can predict a patient's response to different cancer treatments, helping oncologists choose the most effective therapy for individual patients while reducing unnecessary treatments.

Predictive Analytics for Proactive Care:

Predictive analytics powered by machine learning algorithms enable healthcare providers to anticipate adverse events and intervene proactively. By analyzing patient data in real-time, these models can identify individuals at high risk of developing complications or hospital readmissions. For instance, predictive models can forecast the likelihood of a patient experiencing a heart attack or diabetic crisis based on their vital signs, medication adherence, and lifestyle habits, allowing healthcare teams to intervene early and prevent adverse outcomes.

ARTICLE

Drug Discovery and Development :
Machine learning algorithms are revolutionizing the process of drug discovery and development, accelerating the identification of novel therapeutic compounds and potential drug targets. By analyzing molecular structures, biological pathways, and clinical trial data, these models can predict the efficacy and safety of candidate drugs, reducing the time and cost associated with traditional drug development pipelines. Moreover, machine learning algorithms facilitate the repurposing of existing drugs for new indications, unlocking opportunities for innovation and expanding treatment options for patients.

Challenges and Considerations:
While machine learning holds immense promise for transforming healthcare, its widespread adoption is not without challenges. Concerns about data privacy, security, and bias must be addressed to ensure the ethical and responsible use of machine learning algorithms in healthcare settings. Additionally, integrating machine learning systems into existing clinical workflows requires collaboration between data scientists, healthcare providers, and regulatory bodies to ensure seamless implementation and compliance with industry standards.

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