PROF.(DR.) HARSH SADAWARTI

VICE CHANCELLOR,
DESH BHAGAT UNIVERSITY, PUNJAB, INDIA

Dr. Harsh Sadawarti is a distinguished technology leader, academic strategist, and emerging technology expert with a strong focus on Artificial Intelligence (AI), Machine Learning (ML), Robotics, and Electric Vehicle (EV) technologies. With a proven record of institution-building, industry collaboration, and international academic partnerships, Dr. Sadawarti has positioned himself as a forward-thinking architect of technology-driven academic ecosystems aligned with national innovation priorities.

Currently associated with Desh Bhagat University (DBU), Dr. Sadawarti has played a pivotal role in conceptualizing and establishing Centres of Excellence (CoEs) aimed at bridging academia, research, and industry. His strategic leadership in the development of the Centre of Excellence in Artificial Intelligence & Robotics and the Centre of Excellence in Electric Vehicle Technology reflects his commitment to fostering applied research, skill development, and innovation-led growth.

www.harshsadawarti.in

Establishment of Centres of Excellence

Under Dr. Sadawarti's guidance, DBU's Centre of Excellence in AI & Robotics was designed as a multidisciplinary innovation hub focusing on machine learning, deep learning, computer vision, natural language processing, robotics automation, and intelligent systems. The Centre emphasizes real-world problem-solving, industry-relevant research, and prototype development. It integrates laboratory infrastructure, advanced computing resources, and collaborative research platforms to encourage faculty-student research teams to work on national priority areas such as smart manufacturing, predictive analytics, healthcare AI, and autonomous systems.

In parallel, the Centre of Excellence in Electric Vehicle Technology has been developed to support India's transition to sustainable mobility. The Centre focuses on battery management systems, EV drivetrain technology, charging infrastructure, IoT-enabled vehicle monitoring, and AI-based predictive maintenance. Dr. Sadawarti has ensured that the Centre aligns with government initiatives promoting green mobility and indigenous technology development, thereby contributing to national sustainability goals.

These Centres serve not only as academic facilities but also as innovation accelerators that encourage start-up incubation, patent filing, prototype commercialization, and technology transfer initiatives.

Industry Collaborations and Applied Research

Dr. Sadawarti has consistently prioritized strong industry-academia partnerships to enhance research relevance and employability outcomes. He has facilitated collaborations with technology companies and industry stakeholders in AI, data science, robotics automation, and EV manufacturing domains. These collaborations include:

- **Joint research projects on AI-driven analytics and automation.**
- **Industry-certified training programs and skill enhancement workshops.**
- **Internship pipelines and live industry problem-solving assignments.**
- **Collaborative curriculum development to align with Industry 4.0 standards.**

His approach integrates applied research with industry demands, ensuring that students gain hands-on exposure to emerging technologies while contributing to innovation-driven outcomes. By aligning academic research with real-world applications, Dr. Sadawarti has strengthened institutional engagement with technology ecosystems and industrial clusters.
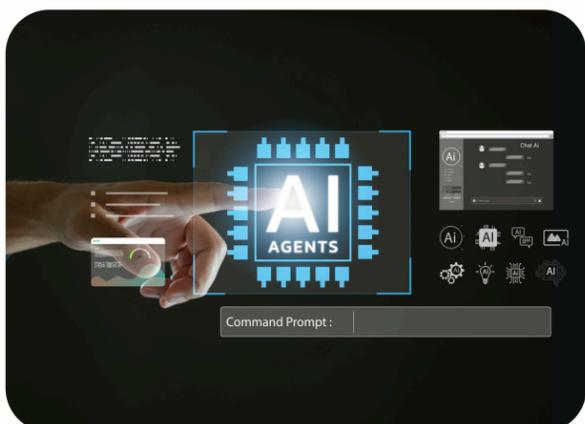
International Academic Collaborations

Recognizing the importance of global exposure, Dr. Sadawarti has been instrumental in fostering international academic linkages and knowledge exchange platforms. These collaborations focus on joint research initiatives, faculty exchange programs, collaborative publications, and international conference participation in AI and emerging technologies.

He has encouraged interdisciplinary research networks in artificial intelligence, robotics engineering, and sustainable mobility solutions, enabling global benchmarking and best practice adoption. Such partnerships enhance the university's international footprint while contributing to global research discourse in emerging technologies.

AI and Machine Learning Research Leadership

As an emerging technology expert, Dr. Sadawarti's research focus spans across:

- **Artificial Intelligence algorithms and model optimization**
- **Machine Learning and Deep Learning architectures**
- **Predictive analytics and intelligent decision systems**
- **Robotics automation and smart control systems**
- **AI integration in Electric Vehicle systems**
- **Emerging Industry 4.0 technologies**

His research contributions emphasize scalable, socially relevant AI applications. He advocates for ethical AI frameworks, explainable AI models, and AI applications for sustainable development. By integrating AI research with robotics and EV technologies, he promotes interdisciplinary innovation that supports both industrial transformation and societal advancement.

Dr. Sadawarti also mentors young researchers in publishing in reputed journals, filing intellectual property rights, and developing industry-ready prototypes. His research-oriented leadership strengthens the university's academic rigor and innovation culture.

Digital Learning and Global Certification Integration

To enhance global competency standards, Dr. Sadawarti facilitated an academic collaboration between DBU and Coursera, enabling students and faculty to access internationally recognized certification programs in AI, data science, cloud computing, and emerging technologies. This partnership has significantly strengthened digital learning pathways and aligned institutional curricula with global technology trends.

Through this initiative, learners gain exposure to courses from leading international universities and technology companies, thereby enhancing employability and global competitiveness.

Vision and Strategic Impact

Dr. Sadawarti's professional vision aligns with national missions on Digital India, Skill India, Atmanirbhar Bharat, and sustainable technology innovation. His focus areas include:

- **Building AI-driven research ecosystems.**
- **Promoting industry-integrated academic frameworks.**
- **Supporting sustainable mobility through EV research.**
- **Encouraging interdisciplinary innovation.**
- **Strengthening global academic collaborations.**
- **Nurturing future-ready technologists and researchers.**

His leadership style combines academic depth with strategic execution, enabling the creation of scalable institutional models for technology excellence. Through the establishment of Centres of Excellence, structured industry partnerships, international collaboration frameworks, and AI-driven research initiatives, Dr. Harsh Sadawarti exemplifies the role of a modern technology academic leader contributing to national development and global technological advancement.

Given his expertise in Artificial Intelligence, Machine Learning, Robotics, Electric Vehicles, and institutional innovation, Dr. Sadawarti is strongly positioned for government nomination roles that require strategic insight, research leadership, and technology-driven policy alignment.
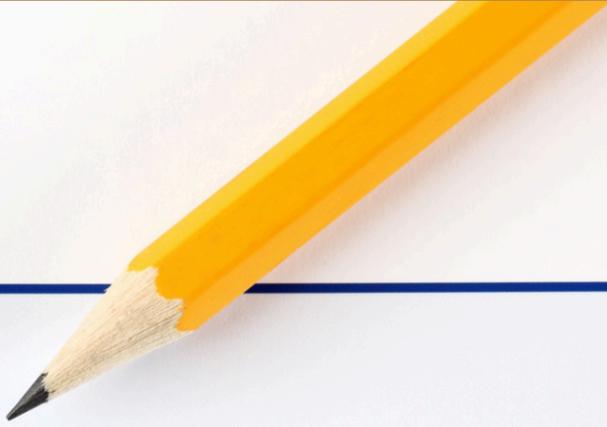
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