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<https://sustainable-climate.ieee.org/tribe-event/2025-ieee-symposia-on-computational-intelligence-for-energy-transport-and-environmental-sustainability-riete/>

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When Algorithms Learn to Care - The Rise of Computational Sustainability

Rethinking the Role of Computers

We often see computers as cold, logical machines—engineered to crunch numbers, solve equations, and optimize performance. But what if algorithms could be designed not just to compute, but to genuinely care? This thought-provoking notion lies at the heart of a rapidly blossoming field known as Computational Sustainability.

Where Technology Meets Ecology

Imagine a sophisticated program that predicts the migration patterns of elephants for the coming year, helping to create safe corridors that prevent human-wildlife conflicts. Envision an intelligent algorithm that orchestrates the placement of solar panels across a city, optimizing not only for maximum efficiency but also for minimal environmental disruption. Or consider advanced AI models that meticulously analyze millions of satellite images, catching early signs of deforestation before it spirals out of control.

From Efficiency to Responsibility

These scenarios are not distant fantasies; they are vibrant, ongoing projects that reflect the powerful union of computation and conservation. What makes this field

Computational Sustainability invites us to ask, “How can solving this problem enhance life—for people, for species, and for our planet?”

A New Direction for Future Technologists

The emphasis shifts from mere efficiency to a profound sense of responsibility, balance, and long-term impact. For aspiring researchers and practitioners in computer science, this represents an exhilarating frontier. It encourages us to harness the power of optimization, machine learning, and simulations not only in finance, e-commerce, or entertainment but also in safeguarding the very ecosystems and societies we inhabit. In essence, Computational Sustainability redefines technology, transforming it from a simple tool of convenience into a beacon of conscience. By teaching our algorithms to care, we may just discover a deeper capacity to care ourselves.

Dr. Abha Khandelwal
Founder AACST



Just Laugh 😊

Why do programmers prefer dark mode?

Think... Think... Think...

Because light attracts bugs.



Computer Days

10th November – World Science Day for Peace and Development

This day highlights the importance of science in building a sustainable and peaceful world. It encourages us to use research and innovation for the betterment of society and the planet.

11th November – National Education Day (India)

Observed in memory of Maulana Abul Kalam Azad, India's first Education Minister. It emphasizes quality education, scientific thinking, and equal learning opportunities for all.

18th November - Women in Entrepreneurship Day

A day to recognize and celebrate women innovators, leaders, and startup founders. It inspires more women to step into technology, entrepreneurship, and leadership roles.

30th November – International Computer Security Day

This day reminds us to protect our devices, data, and digital identity from cyber threats. It encourages safe passwords, updated systems, and responsible online behavior.

Turning Ideas into Reality - Dr. Rajani D. Singh



Source: <https://www.linkedin.com/pulse/starting-startup-turning->

Introduction

A startup is a young business formed to develop a unique product or service and bring it to the market. Unlike traditional businesses, startups often begin with a new idea and aim to solve a real-world problem in a different or innovative way. Research and Development (R&D) plays an important role in shaping a startup's journey. It helps improve the product, understand customer needs, and create competitive advantages.

Role of R&D in Startups

For any startup, R&D is like a strong foundation. It allows the team to test ideas, build prototypes, and improve features step-by-step. Through R&D, startups can analyze whether their product is practical, cost-effective, and useful. For example, a startup working on solar-based chargers must research battery materials, efficiency, and safety before launching. Good R&D ensures the startup grows with quality and confidence.

Approaching Funding

Agencies

Once a startup has a clear idea and basic model, it needs funding. In India, several government agencies and organizations support startups.

- **Startup India Seed Fund Scheme** provides financial help for idea development and testing.
- **Department of Science & Technology (DST)** supports technology-based startups with grants.
- **MSME Innovation Fund** helps small enterprises grow their product research.
- **Atal Innovation Mission (AIM)** supports student and youth innovations.

Private companies like **Tata Elxsi, Infosys Foundation, Mahindra Rise, and Reliance Foundation** also support promising ideas.

To approach these agencies, a startup must prepare a **simple project report**, including the problem, solution, expected users, basic cost, and how the

idea can be scaled. Clear and structured documentation increases the chances of receiving funding.

Conclusion

A startup becomes successful when idea, research, and execution work together. With patience, proper planning, and support from funding agencies, any small idea can grow into a strong enterprise.

Startups create new solutions, new opportunities, and new jobs. Therefore, nurturing startup culture encourages innovation and contributes to the overall development of society and the nation.

Dr. Rajani D. Singh

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