

Intelligent Designs, Innovations and Sustainability in Agriculture 4.0 Anand B. Deshpande
Intelligent Designs, Innovations and Sustainability in Agriculture 4.0 *Anand B. Deshpande*

feeding an expanding population in light of environmental preservation and keeping production lean is a considerable challenge sustainable and precise agriculture relying on industry 4 0 agri4 points toward creating strategic collaborations innovations and alternative approaches to old concerns and incorporating solutions from other expertise domains it requires intensive efforts from governments investors investigators and developers these initiatives address many problems while connecting more agrarians and their communities agri4 entails key agribusiness developments viz precision agriculture biotech iot and big data to augment efficiency in dealing with growing population and climate change agri4 is likely to yield improvements such as sustainable practices education environmental residue reduction seed improvement and traditional agricultural knowledge usage among others it promotes sustainable food production community development and scientific literacy by fostering effective natural resource administration this book explores the transformative impact of agriculture 4 0 guiding readers through the integration of digital technologies and sustainable practices into modern farming it discusses how innovations like ai and the iot are revolutionizing agriculture enhancing connectivity precision and ecological awareness the intended readers of the book include agricultural professionals researchers tech innovators policymakers and students it caters to those interested in the convergence of modern technology and farming particularly in advancing sustainable practices and understanding the future of agriculture in the digital age

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