His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji

Jagadguru Sri Veerasimhasana Mahasamsthana Math, Sri Suttur Kshethra

Organizing

A Special Lecture On

REMOTE SENSING & ARTIFICIAL INTELLIGENCE

Resource Person

DR. P.P. NAGESWARA RAO

Former Director, NESAC, ISRO

Outstanding Scientist (Retd.), ISRO.

11:00 - 13:00

03 May., 2024

GIS Lab, 2nd Floor, DCH

Dr Sushant Sawant
8754963216
Mr Mahesha DB
8310579415

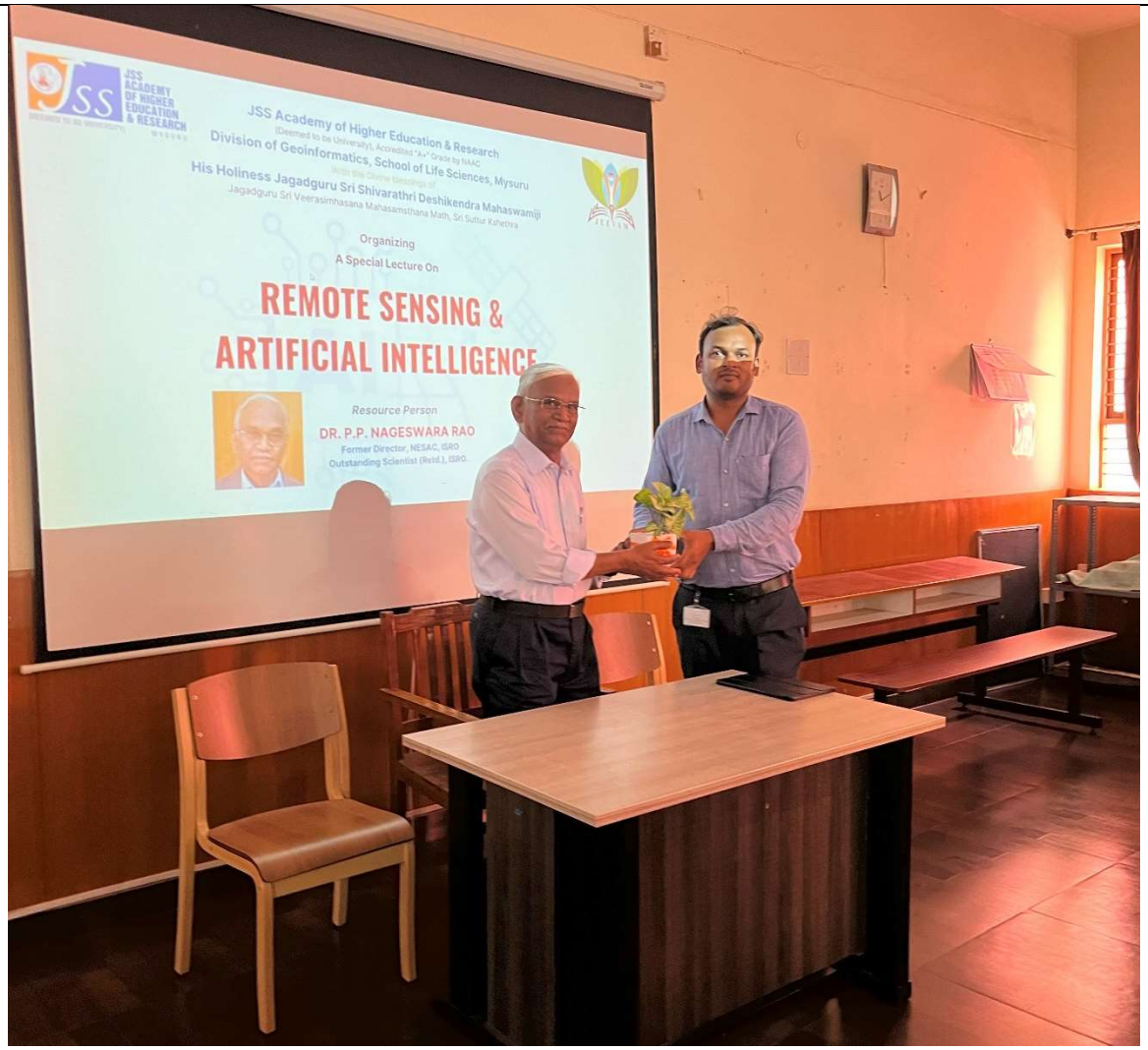
About Lecture

The lecture focuses on the applications of AI in the Remote Sensing field, its integration, advantage, and also discuss the roadmap to learn the AI and its uses in Remote Sensing

NAAC A+ | NIRF 2023 34th University Category | QS Asia 350 2024 | QS World University Rankings by Subject Pharmacy & Pharmacology 101-150, Medicine 651-680 | QS Stars 2023-2024 Excellent | QS Sustainability Ranking Ranked 2024 | THE World University Rankings 2024 801-1000, 25 in INDIA | THE by Subject 2024 Clinical & Health 501-600, Life Science 801-1000 | THE World University Rankings 2023 Asia Asia-68, 2 in INDIA | THE Young University 79, 2 in INDIA | THE Impact Ranking 301-400, SDG 3-16 1 in INDIA | 1st in the Asia Pacific ACPE certified PharmD Program

NIRF 2023 | JSS College of Pharmacy, Ooty - 4th ★ JSS College of Pharmacy, Mysuru - 7th ★ JSS Dental College & Hospital - 11th ★ JSS Medical College - 37th

(AI) for the erudite M.Sc. Geoinformatics and M.Sc. Medical Statistics students. This enlightening discourse took place on May 03, 2024, from 11:00 am to 1:00 pm, graced by the esteemed presence of Dr. P.P. Nageswara Rao, Former Director of NESAC, ISRO, and an Outstanding Scientist (Retd.), ISRO, as the distinguished resource person.

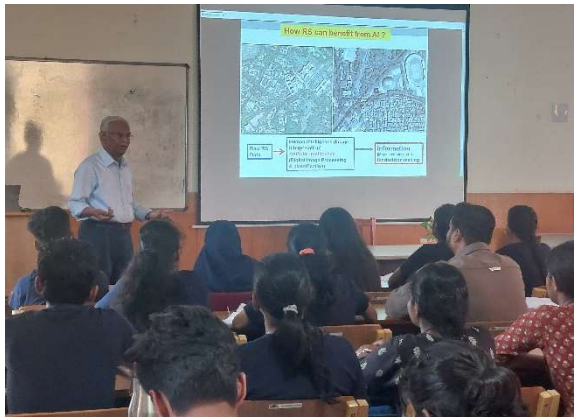


Dr. P.P. Nageswara Rao was welcomed by Dr. Sushant Sawant, Division Coordinator, M.Sc. Geoinformatics, SLS, JSS AHER, Mysuru.

Commencing the proceedings, Mr. Mahesha D B, Assistant Professor of the Division of Geoinformatics, extended a warm welcome to the erudite resource person, Dr. P. P. Nageswara Rao, alongside Division Coordinator Dr. Sushant Sawant, esteemed

Delineating the symbiosis between human intelligence and AI, Dr. Rao elucidated upon the multifaceted capabilities of AI, encompassing visual perception, speech recognition, decision-making prowess, and language translation, thereby encapsulating the essence of artificial intelligence's emulation of human cognitive faculties.

Furthermore, he elucidated upon the quintessence of remote sensing as a conduit for non-contact acquisition of spatial information, facilitated by an array of sophisticated instruments such as cameras, LiDAR, and radar, affixed to aerial or spaceborne platforms.



Dr. P.P. Nageswara Rao enlightens M.Sc. Geoinformatics and Medical Statistics students on Remote Sensing and AI.

The discourse traversed into the burgeoning convergence of AI and remote sensing within the realms of biosciences, medical diagnostics, and agriculture, underscored by their transformative potential in harnessing vast swathes of data for advanced analytics, with a focus on precision farming and crop stress detection.

Expounding upon the evolutionary trajectory of AI, Dr. Rao delineated its constituent facets, including machine learning, deep learning, expert systems, and natural

of Artificial Neural Networks (ANN) and random forest algorithms.

Concluding on a contemplative note, Dr. Rao underscored the myriad benefits bestowed by the synergistic amalgamation of AI and remote sensing, ranging from heightened precision and accuracy to expedited decision-making paradigms, albeit cautioning against the nascent stage of these technologies, urging concerted interdisciplinary efforts to propel their evolution.

In summation, the special lecture served as a veritable crucible for intellectual exchange, shedding light on the transformative potential of AI and remote sensing in engendering paradigm shifts across diverse scientific domains, while underscoring the imperative for interdisciplinary collaboration to navigate the uncharted frontiers of technological innovation.

Following an engaging Q&A session with Dr. P.P. Nageswara Rao, students actively interacted. The event culminated with Mr. Mahesha D.B. delivering a vote of thanks on behalf of the Division of Geoinformatics, SLS, JSS AHER Mysuru, marking the conclusion of the program.