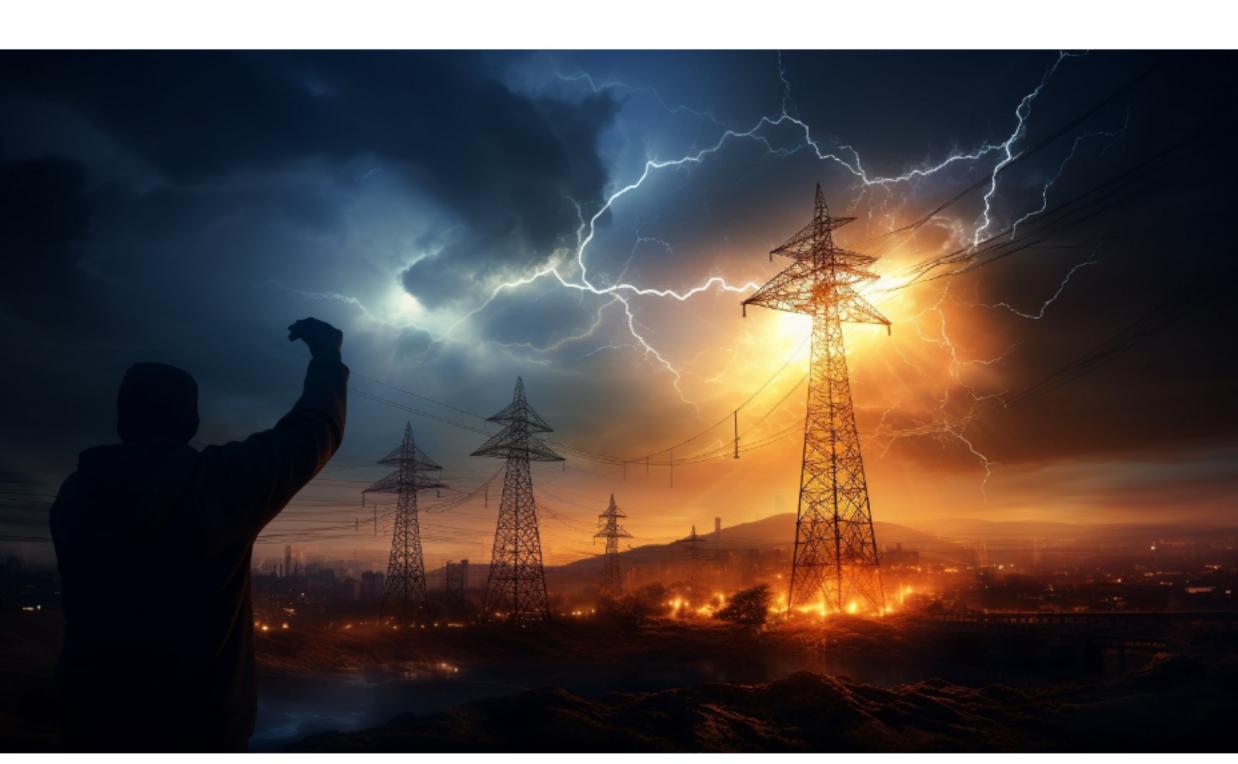# Uttar Pradesh Government Approves Over 100 Research Studies on AI and Blockchain

By **Daniel Hall**

🕐 OCT 8, 2023

The Uttar Pradesh government's Department of Science and Technology has granted approval for more than 100 research studies to be conducted by leading educational institutions in the state. These studies will focus on utilizing technologies such as artificial intelligence (AI) and blockchain in various sectors including healthcare and renewable energy.

The government-funded research projects aim to develop applications and systems that tackle pressing issues such as early throat cancer detection in tobacco users, correcting sitting posture among desk workers, and assisting individuals with disabilities through specialized wheelchairs.

The approval for these research proposals was granted during a meeting held in Lucknow on October 5, chaired by Narendra Bhooshan, the Principal Secretary of the Department of Science and Technology and the Director General Council of Science and Technology. A total of 109 research proposals were approved, marking the highest number of approvals to date. These studies will cost approximately Rs 14 crore.

One of the approved proposals involves the development of an AI and IoT-based real-time posture correction system by the Motilal Nehru National Institute of Technology. This system will provide warnings to desk workers whenever their posture is incorrect, addressing issues such as back pain and spondylitis caused by sitting for long periods.

IIT-Kanpur plans to develop a healthcare application using artificial intelligence and advanced endoscopic imaging for the early detection of cancer in individuals who consume paan and tobacco. This application aims to facilitate early diagnosis and treatment to prevent loss of life.

Other approved projects include the development of a helmet-controlled electronic vehicle wheelchair by the Ambedkar Institute of Technology for Handicapped, which utilizes artificial intelligence and IoT principles. Additionally, research will be conducted by various institutions to promote the renewable energy sector in Uttar Pradesh.

The fellowship of research staff in projects funded by the Council of Science and Technology will also increase. The fellowship for research assistants will be raised from Rs 20,000 to Rs 25,000, while senior research assistants will receive a hike from Rs 22,000 to Rs 28,000.

Overall, these research studies showcase an ambitious push by the Uttar Pradesh government to leverage technology in solving crucial challenges and promoting growth in sectors such as healthcare and renewable energy.

Definitions:
1. Artificial Intelligence (AI): A branch of computer science that aims to create intelligent machines capable of simulating human-like behavior and decision-making.
2. Blockchain: A decentralized digital ledger that records and verifies transactions across multiple computers, ensuring transparency, security, and immutability of data.