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ARTIFICIAL INTELLIGENCE IN DRUG DISCOVERY-A FOCUS ON CLINICAL RESEARCH COMPANIES**Rashmi Pant***University Department of Chemical Technology, India*

The search for novel therapies has long been a challenging process that costs pharmaceutical and clinical research companies a large amount of time and resources. Artificial intelligence (AI) can change the growth scenario of pharmaceutical and clinical research industry more than any other technology. More than 200 clinical research companies worldwide offer which have capabilities in the area of Drug Discovery, Pre-clinical, Phase I-IV clinical trial services are adopting artificial intelligence as their key technology. Majority of the drug discovery clinical research companies' chain have preference of artificial intelligence use artificial intelligence platforms. Plentiful funding and finance deals in the pharmaceutical and clinical research industry for artificial intelligence tools which includes a lot of start ups too is in indicator of the need to develop new drug therapies at a fast pace. Around US \$3700 million was raised by 14 start-up companies alone in drug discovery for artificial intelligence for their IPO, initial public offering in the period of Feb 2020 -April 2021. This has created a trend in partnerships and collaborations of pharmaceutical and biotech companies with clinical research companies for artificial intelligence globally which have revenues starting from US\$ 1 million to as high as US\$ 1 billion. At least 15 global partner ships exceeding US\$ 500 million between pharmaceutical and drug discovery companies from April 2019- April 2021 have been executed. Ultimately, the diverse range of AI applications being explored could help tackle the ultimate challenge that developing new drugs, from target identification through clinical trials, requires years of time and billions of dollars.

Biography

Rashmi Pant is a leader in the market research consulting space, helping companies derive optimal market intelligence from available proprietary and secondary desk research. With over 22 years of experience and associations with Torrent Pharma, Intas Pharma, Sun Pharma Advanced Research Company, Veeda Clinical Research, and Cliantha Research, she has accumulated deep marketing intelligence based on comprehensive data analytics. She advises pharmaceutical and clinical research companies from UK, USA, and India in attaining a strategic perspective for discovering optimal, unexplored, and sustainable growth opportunities. Her expertise is in secondary desk research, market intelligence, and strategic marketing. She teaches market research, strategic marketing, business communication and pharmaceutical management courses at Gujarat University's BK School of Management, Amity University, Shanti Business School, and Xcellon to both full-time students and working professionals. To know more visit <https://www.rashmipant.com/about-us/>.