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**RxDataScience Enters Into Joint AI Research Venture with Indian Institute of Technology
Mandi**

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RxDataScience, Inc., is pleased to continue its partnership with the Indian Institute of Technology Mandi for the research and development of innovative machine learning (ML) and artificial intelligence (AI) algorithms using pharmaceutical and healthcare real world data.

As AI and machine learning capabilities increase exponentially, there is high potential value for the technology's implementation in the healthcare and pharmaceutical industries. The goal of RxDataScience and IIT Mandi's 18-month partnership is twofold: the research venture seeks to both design and develop AI applications for rare disease treatment and use machine learning prediction models for different measures of interest to improve upon patient journeys.

Rare diseases affect nearly 30 million Americans and countless others around the world, but by their nature, rare diseases are difficult to diagnose. RxDataScience and IIT Mandi are designing algorithms to identify combinations of symptoms that are indicative of patients who may have specific rare diseases. These identifications will be used to locate specialized physicians.

Similarly, RxDataScience and IIT Mandi will apply machine learning to patient journeys in an effort to map the nature of a typical treatment pattern. Patient journeys are a sequence of steps, clinical and non-clinical, through a patient's ailments. Analyzing these steps and identifying any bottlenecks is crucial to the diagnostic process. Patient-level data will help market medications and influence future patient journeys and drug use, disease treatment patterns, and ultimately health outcomes. The objective is to anticipate certain steps patients take (including the frequency and time between office visits, number of prescriptions filled, time elapsed between the first primary care visit and referral to a specialist, among others) with the help of both conventional machine-learning techniques and recent deep-learning methods.

"This project," notes RxDataScience co-founder and CEO, Larry A. Pickett, Jr., "continues the partnership between RxDataScience and IIT Mandi while creating new machine learning algorithms leveraging patient level data to improve health outcomes benefitting patients worldwide. The collaboration supports both undergraduate and graduate level student research into novel applications of AI and ML applied to healthcare data".

Varun Dutt, the IIT Mandi faculty, who is partnering with RxDataScience on the project, mentioned that “this project provides unique opportunities to the IIT Mandi team to apply state-of-the-art machine learning techniques for helping patients with rare diseases as well as other illnesses. The ongoing partnership with RxDataScience will allow us to build upon cutting-edge ML research and help suggest specific and impactful applications of AI to healthcare.”

Sayee Natarajan, RxDataScience’s co-founder and CTO, has this to say about the partnership: “Over the last year, our platforms have developed excellent capabilities in patient data management. This partnership will further that capability by incorporating cutting-edge research in machine learning. This team at IIT will add to our tradition of bringing talent from other sectors into healthcare.”

ABOUT RXDATASCIENCE

RxDataScience, Inc was founded by a core team with over 160 years of collective biopharma experience. RxDataScience builds AI and advanced analytics solutions to address and answer the challenges with healthcare information management and analysis. Their vision is to create a large suite of apps solving specific business problems across the entire pharmaceutical and healthcare value chain. These apps contain advanced analytics and link large data sets enabling business analysts and non-programmers to extract business value from disparate healthcare data sources. For more information, contact Aaron Gragg at (919) 525-3904 or by sending an email to sales@rxdatascience.com.

ABOUT IIT MANDI

The Indian Institute of Technology Mandi (IIT Mandi) is a leading engineering and technology institute located in northern India. It is one of the eight new IITs established in India by the Ministry of Human Resource Development, Government of India and an Institute of national importance. The institute has broad schools focusing on research in engineering, basic sciences, and humanities and social sciences. The Institute's vision is to be a leader in science and technology education, knowledge creation and innovation, in an India marching towards a just, inclusive and sustainable society. For more information, contact Registrar, IIT Mandi at +91-1905-267015 or by sending an email to registrar@iitmandi.ac.in.