"1\n\nTitle: Machine Learning and Deep Learning: How to get started, job opportunities and future scope\n\nSource: https://www.news.google.com/articles/CBMirAFodHRwczovL3d3dy5pbmRpYXRvZGF5LmluL2VkdWNhdGlvbi10b2RheS9qb2JzLWFuZC1jYXJlZXJzL3N0b3J5L21hY2hpbmUtbGVhcm5pbmctYW5kLWRlZXAtbGVhcm5pbmctaG93LXRvLWdldC1zdGFydGVkLWpvYi1vcHBvcnR1bml0aWVzLWFuZC1mdXR1cmUtc2NvcGUtMTc5MDQ4My0yMDIxLTA0LTEz0gGwAWh0dHBzOi8vd3d3LmluZGlhdG9kYXkuaW4vYW1wL2VkdWNhdGlvbi10b2RheS9qb2JzLWFuZC1jYXJlZXJzL3N0b3J5L21hY2hpbmUtbGVhcm5pbmctYW5kLWRlZXAtbGVhcm5pbmctaG93LXRvLWdldC1zdGFydGVkLWpvYi1vcHBvcnR1bml0aWVzLWFuZC1mdXR1cmUtc2NvcGUtMTc5MDQ4My0yMDIxLTA0LTEz?hl=en-IN&gl=IN&ceid=IN%3Aen\n\nWhat are Machine Learning and Deep Learning? Fast-forward to 2021 and artificial intelligence and its subfield of machine learning are part of our everyday lives. Machine Learning uses numerical and statistical approaches to encode learning into mathematical models, which are then used to make predictions on new data, situations and scenarios. In deep learning, the first few layers of the network perform feature extraction in a series of stages, just as the brain seems to do. Not only the big tech companies, but also medium and small enterprises are embracing this AI revolution, and are incorporating machine learning in the products and solutions, from the financial sector, to security and defence, to medical and manufacturing. Based on this, the job market has seen a considerable increase in the demand for data scientists and analysts, machine learning experts and developers. Such programmes should focus on the algorithms and state-of-the-art novel engineering and software technologies required for machine learning and deep neural network systems. But to achieve this, a complete understanding of the algorithms and techniques underpinning such complex machine learning and deep learning architectures is paramount. As the demand for AI and machine learning has increased, organisations require professionals with complete knowledge of these growing technologies and experience. For those who acquire skills in machine learning and deep learning, there are a wide range of jobs in multinational corporations across India and the world in various, including as software engineers, electronic engineering systems analysts, data scientist or engineer and data insight analysts. \n_____\n\n2\n\nTitle: Twitter analysing harmful impacts of its AI, machine learning algorithms\n\nSource: https://www.news.google.com/articles/CBMikAFodHRwczovL3d3dy5idXNpbmVzcy1zdGFuZGFyZC5jb20vYXJ0aWNsZS90ZWNobm9sb2d5L3R3aXR0ZXItYW5hbHlzaW5nLWhhcm1mdWwtaW1wYWN0cy1vZi1pdHMtYWktbWFjaGluZS1sZWFybmluZy1hbGdvcml0aG1zLTEyMTA0MTYwMDIxOV8xLmh0bWzSAZQBaHR0cHM6Ly93YXAuYnVzaW5lc3Mtc3RhbmRhcmQuY29tL2FydGljbGUtYW1wL3RlY2hub2xvZ3kvdHdpdHRlci1hbmFseXNpbmctaGFybWZ1bC1pbXBhY3RzLW9mLWl0cy1haS1tYWNoaW5lLWxlYXJuaW5nLWFsZ29yaXRob3MtMTIxMDQxNjAwMjE5XzEuaHRtbA?hl=en-IN&gl=IN&ceid=IN%3Aen\n\nIn a bid to assess racial and gender bias in its artificial intelligence/machine learning systems, Twitter is starting a new initiative called Responsible Machine Learning. Terming it a long journey in its early days, Twitter said the initiative will assess any \"unintentional harms\" caused by its algorithms. \"When Twitter uses ML, it can impact hundreds of millions of Tweets per day and sometimes, the way a system was designed to help could start to behave differently than was intended,\" said Jutta Williams and Rumman Chowdhury from Twitter. \"These subtle shifts can then start to impact the people using Twitter and we want to make sure we're

studying those changes and using them to build a better product,\" they said in a statement late on Thursday. Twitter's 'Responsible ML' working group is interdisciplinary and is made up of people from across the company, including technical, research, trust and safety, and product teams. \"Leading this work is our ML Ethics, Transparency and Accountability (META) team: a dedicated group of engineers, researchers, and data scientists collaborating across the company to assess downstream or current unintentional harms in the algorithms we use and to help Twitter prioritise which issues to tackle first,\" the company elaborated. Twitter said it will research and understand the impact of ML decisions, conduct in-depth analysis and studies to assess the existence of potential harms in the algorithms it uses. Some of the tasks will be a gender and racial bias analysis of its image cropping (saliency) algorithm, a fairness assessment of our Home timeline recommendations across racial subgroups and an analysis of content recommendations for different political ideologies across seven countries. \"The most impactful applications of responsible ML will come from how we apply our learnings to build a better Twitter,\" the company said. Twitter said it is also building explainable ML solutions so people can better understand its algorithms, what informs them, and how they impact what they see on the platform.
\n_____\n\n3\n\nTitle: Machine learning can be your best bet to transform your career\n\nSource: https://www.news.google.com/articles/CBMiYGh0dHBzOi8vd3d3LmFuYWx5dGljc2luc2lnaHQubmV0L21hY2hpbmUtbGVhcm5pbmctY2FuLWJlLXlvdXItYmVzdC1iZXQtdG8tdHJhbnNmb3JtLXlvdXItY2FyZWVyL9IBZGh0dHBzOi8vd3d3LmFuYWx5dGljc2luc2lnaHQubmV0L21hY2hpbmUtbGVhcm5pbmctY2FuLWJlLXlvdXItYmVzdC1iZXQtdG8tdHJhbnNmb3JtLXlvdXItY2FyZWVyLz9hbXA?hl=en-IN&gl=IN&ceid=IN%3Aen\n\nAI (Artificial Intelligence) has been around for a while now. While virtual courses on AI and machine learning can be a pricy affair, the very attempt in learning machine learning can be done otherwise as well. AI and machine learning are not only used in machine learning applications but also in Internet of things, like self-driving cars, smart homes, digital assistants, etc. In fact during COVID-19, statistical machine learning had played a significant role in generating advanced models for predicting virus spread, and aided in the management of the pandemic across the world. Machine learning in finance has also secured a respectable place among the business leaders using the technology for generating automatic models for stock management. While this article will guide you through some of the best ways of finding machine learning courses online, we will also give you some tips for learning machine learning at your own pace through books and other resources. And even before to choose the right course for yourself, you need to decide, which language you want to use. On the other hand, if you are still a beginner, you can look for courses which provide an introduction to machine learning or start with introductory books like “Deep Learning” by Goodfellow, Bengio and Courville. © 2021 Stravium Intelligence LLP. AI (Artificial Intelligence) has been around for a while now.
\n_____\n\n4\n\nTitle: Data Science Why Machine Learning Over Artificial Intelligence?\n\nSource: https://www.news.google.com/articles/CBMiU2h0dHBzOi8vd3d3LmFuYWx5dGljc2luc2lnaHQubmV0L3doeS1tYWNoaW5lLWxlYXJuaW5nLW92ZXItYXJ0aWZpY2lhbC1pbnRlbGxpZ2VuY2Uv0gEA?hl=en-IN&gl=IN&ceid=IN%3Aen\n\nAI (Artificial Intelligence) has been around for a while now. Artificial Intelligence, data science, and machine learning – all

fall in the same domain. Over the years, we have seen the immense applications of data science, AI and ML in varied fields. AI, being a replica of human intelligence aids in making better decisions by understanding data in-depth, identifying the patterns and trends which otherwise would have been difficult for humans to do the same manually. The thing with AI is that you need lots and lots of data to be able to understand the data. If you do not have a huge amount of data to deal with, the AI model would deliver results only for a small amount of data. People tend to get confused between data science, AI and ML. In a nutshell, the road to success is a lot easier when technology is not limited to data science and AI. Have been writing for over 3 years now Covering not one, not two but a variety of fields! © 2021 Stravium Intelligence LLP.
\n_____\n\n5\n\nTitle: Automating Drug Discovery With Machine Learning\n\nSource: https://www.news.google.com/articles/CBMicWh0dHBzOi8vd3d3LnRlY2hub2xvZ3luZXR3b3Jrcy5jb20vZHJ1Zy1kaXNjb3ZlcnkvYXJ0aWNsZXMvYXV0b21hdGluZy1kcnVnLWRpc2NvdmVyeS13aXRoLW1hY2hpbmUtbGVhcm5pbmctMzQ3NzYz0gEA?hl=en-IN&gl=IN&ceid=IN%3Aen\n\nWe've updated our Privacy Policy to make it clearer how we use your personal data. The subsequent sections will highlight examples of how ML can be used for drug repurposing and to discover novel antibiotics. Drug discovery is often thought of as a complex jigsaw puzzle where connecting workflows and data are essential pieces. With the laboratory of the future in mind, a flexible and fully integrated solution can help you to seamlessly connect workflows and data to effectively automate your science. Download this guide to discover how to increase walkaway time, while improving reproducibility and productivity, without compromising data quality. By comparing the L1000 data with the drug compounds contained within DrugBank, the researchers could predict the effect of a drug on different cell lines and different genes. For genes not represented in L1000, the team used a deep learning approach. \"We developed a deep learning model, DeepCE, using a graph neural net (converts each compound's chemical structure to a set of vectors, each representing an atom's local substructure), a multi-head attention net (captures drug–gene interactions and gene–gene interactions) and several feedforward nets to translate chemical, gene and drug information into a drug-induced gene expression profile. Technology Networks is committed to keeping you updated with the latest research in this space. Here, you'll find a curation of our latest COVID-19 vaccine-related content.
\n_____\n\n"