Machine Learning in Database Management

This research paper will cover the how databases fuel the newly created topic of machine learning. Machine Learning, in the very general terms, takes data in and produces a guess based off of the data. It does so though a set of relationships between data entry nodes. The data that the programs need come from specialized databases. Machine Learning programs don’t need a few instances in order to be accurate, they need a plethora of consistent and accurate data in order to be considered “trained” to make accurate guesses. Let’s say for instance there is a business that sells cupcakes. Using a database of customers and orders, machine learning programs can predict the sales for cupcakes. Not only that, but a machine learning engineer would be able to turn data into predicted orders and serve customers based on when and what they buy. Machine learning is a field that is hosted under data manipulation. There is amazing software that has come from it, such as autocorrect using predictive text to help finish people’s sentences when they’re missing a word. This uses a large stored structure of sentences that many people have typed and combines machine learning and mathematics to predict what the user want to say. Machine learning cannot exist without the backbone of databases and databases can be extremely complex, so machine learning software engineers need to work with the database administrators to create products that provide outstanding user experiences to customers and employees. This topic is something that will be very important to the future of technology.