Winjit

Automated analysis of Veterinary Reports

Introduction

This case study showcases how Winjit's PredictSense platform can be easily implemented to analyse veterinary pathological reports to predict diagnoses with high accuracy and speed. Machine Learning has been causing quite the buzz in recent years. It has been touted as one of the disruptive technologies with the potential of transforming various industries including healthcare. Machine Learning can help sort, organize and generate insights from vast amounts of historical healthcare data collected over the years and help healthcare professionals in making better and more efficient decisions.

> Predictive Analytics was used to analyze the pathological reports for an veterinary practice to predict the diagnoses with high accuracy and speed

Customer

A prominent veterinary laboratory wanted to leverage Machine Learning to assist in improving speed, efficiency and precision of diagnoses.

Requirement

The historical patient care data can provide a wealth of insights that can aid in providing individualized and timely medical care. The customer wanted to use Machine Learning to find hidden patterns in the data and predict likelihood of certain diseases.

Challenges

In healthcare the right or the most informative data can be vitally important for accurately predicting diagnosis. This is especially challenging when the vital information has to be identified and extracted from large unstructured datasets.

Solution

Winjit's automated machine learning platform- 'PredictSense', was integrated in the customer's existing system. The platform allowed the customer to rapidly build diagnoses prediction models and generate actionable insights in the form of metrics and visualizations from huge pathological report data.

Benefits

The actionable insights generated by the model, assisted in early diagnostics of diseases and helped in providing timely treatment and care to patients.

Achievements

Accuracy and precision are very important metrics for predictive models. They are particularly critical in the healthcare sector, where inaccuracy may lead to dire consequences. The predictive models trained using PredictSense yielded highly precise and accurate predictions, with an average Precision of 94% and accuracy of 80%.

Conclusion

PredictSense provides aide to the customer in the diagnostic process without developing new and extensive skill-set and with minimal intervention.

The diagnoses predictions produced by the platform, provides pathologists an additional arrow in their quiver.

Winjit Technologies Pvt. Ltd. is India's leading provider of innovative engineering solutions. Since its inception in 2004, Winjit has built and expanded its expertise in latest trending technologies including Internet of Thing, Artificial Intelligence & Machine Learning, Fintech Solutions, Product engineering and Digital publishing. Winjit provides end-to-end solutions from conceptualization and optimization to providing real-time solutions by developing software systems for any business is these fortes. Over the past decade, Winjit has provided innovative technology and engineering solutions that has resulted in world-class recognition and long-standing customers.

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