

## Leading Australian University Harnesses the Power of Machine Learning to Improve Student Retention Rate and Enrollment Conversion

**About the Customer-** The University is ranked among top 2% universities in the world & is the number one Catholic university in the Asia-Pacific region. It operates 8 campuses in Australia and caters to around 35000 students and 6500 staff and partners. It stands for meaningful education, rewarding research, and life-changing community engagement employing.

### Challenges faced by the customer-

The university was facing the challenge of a high dropout ratio of students. So, the administration wanted to take proactive actions and adopt solutions that can improve student retention rate with a data-centric approach.

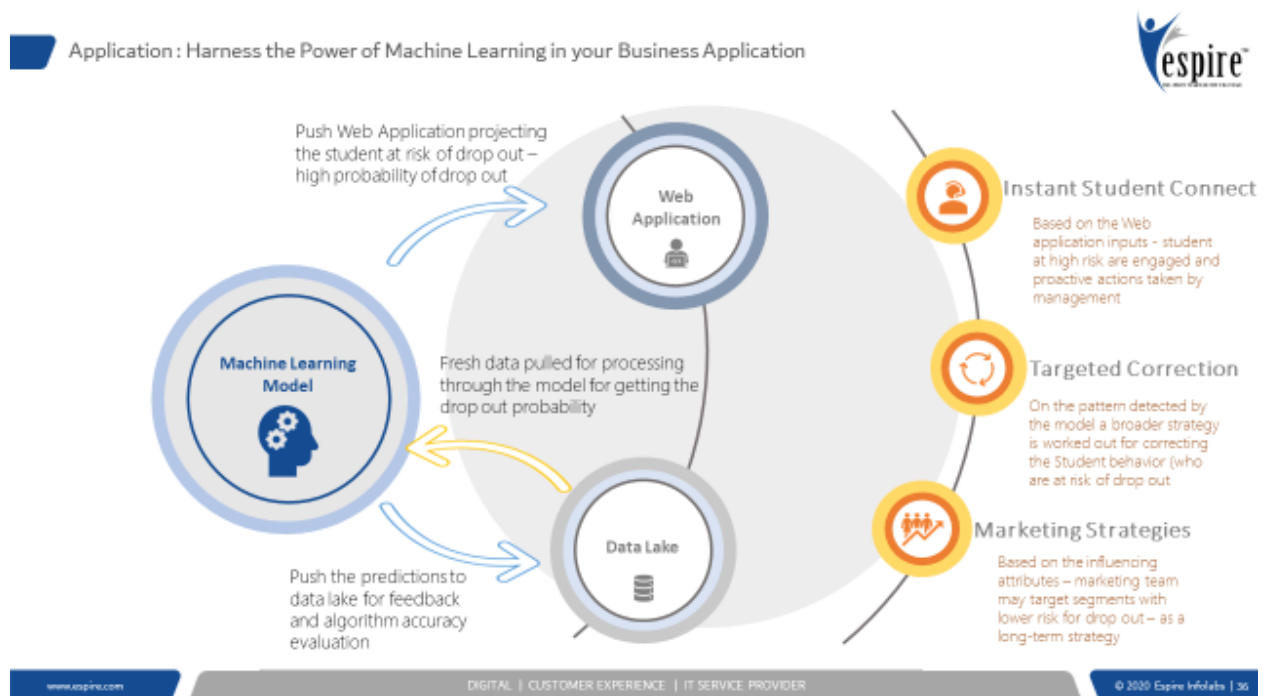
Major challenges were-

- Lack of Data-driven decision making to support student retention
- 360° view of students for helping the student when their drop out probability is high
- Lack of business efficiency due to manual processes and lack of innovation.

### Solution offered by Espire Infolabs

We proposed to create a Data Lake for the implementation of AI/ML applications to increase enrollment conversion, student retention and targeted promotion.

1. Identifying Conversion Propensity through Ensemble Algorithm-ML
2. Probability of Student Drop Out through Classification of ML Algorithms
3. Prospect Student Segmentation using Clustering ML for personalized Marketing and Promotions



## **Benefit of the Solution offered by Espire**

**Instant Connect** with students at remarkably high dropout probability helped in **increasing retention rate by 2%**. Enabling Marketing Strategy to focus on influencing features for better student application conversion. Here are the other benefits of the solution-

1. Recommendation of supplementary material for a given lecture/class.
2. Lecture room capacity optimization and calibrating problem-solving skills of students
3. Prospective student segmentation for marketing resource allocation & strategy.
4. Social media sentiment analysis to gauge the overall image of the institution.