WORKFORCE ANALYTICS

Retail Giant Solves Complex Attrition Problems Using AI/ML-Based **Prediction Models**



Business Context

The customer employs several types of

employees (part-time, management,

full-time) across 2,000 stores and predicting the headcount need as well as the attrition pattern was becoming

Client Profile

US-based multinational retail corporation that operates a chain of hypermarkets/supercenters, discount department stores, and grocery stores with a huge workforce.



Challenges

- Large employee base across several tiers and regions
- Employees needed per store and their attrition patterns depended on multiple factors like policies, regulations and socio-economic indicators
- Every store needed a different prediction model and there was no existing model to establish the baseline performance of these models



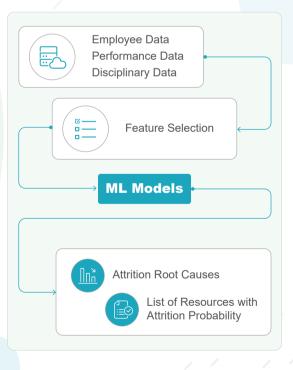
Solution

very difficult.



- Bristlecone created several deep neural network-based classification models from scratch, forming the basis for the later employee attrition model
- We established the critical drivers for these models and assigned them weightages
- These models picked up external signals and correlated them with workforce patterns for accurate headcount forecasting
- We scaled the solution and trained thousands of models simultaneously using parallel cloud processing
- The output is easy for all stakeholders to use and visualize

Digital Enablers





Business Impact

- Identified key attrition factors and suggested remedial measures to reduce employee churn
- Improved the accuracy of the employee headcount forecast substantially
- Improved the forecast accuracy for attrition propensity at an employee level
- The cloud-based, scalable, user-friendly solution made quarterly planning easy for the Finance department



Bristlecone Advantage

- Deep domain expertise
- Solution and technology enablers
- Two decades of experience in automation and data engineering