

Blackwell Electronics

Data Mining Implementation

Goals

How data mining helped establish solutions to our business needs

Customers'
brand
preference

Predict
sales of
product type

Associations
between
products

Future applications of Data Mining

Brand Preferences

Questions

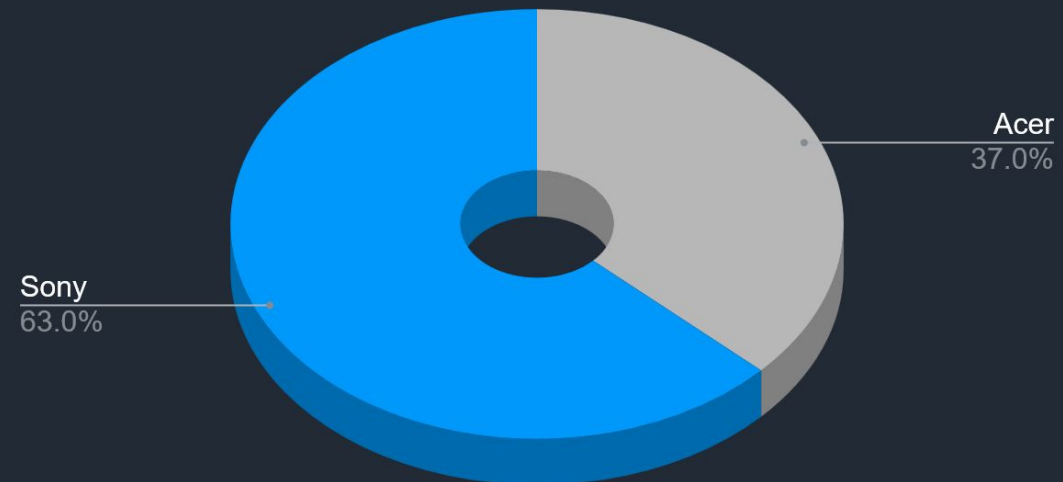
Missing answers on customer's survey about their brand preference

Methods

Through classification methods, we predicted missing values to an incomplete survey (~10k to 15k)

Results

9393 individuals chose Sony as a their preferred brand; 5505 respondents chose Acer as a preference



Sales by product type

Questions

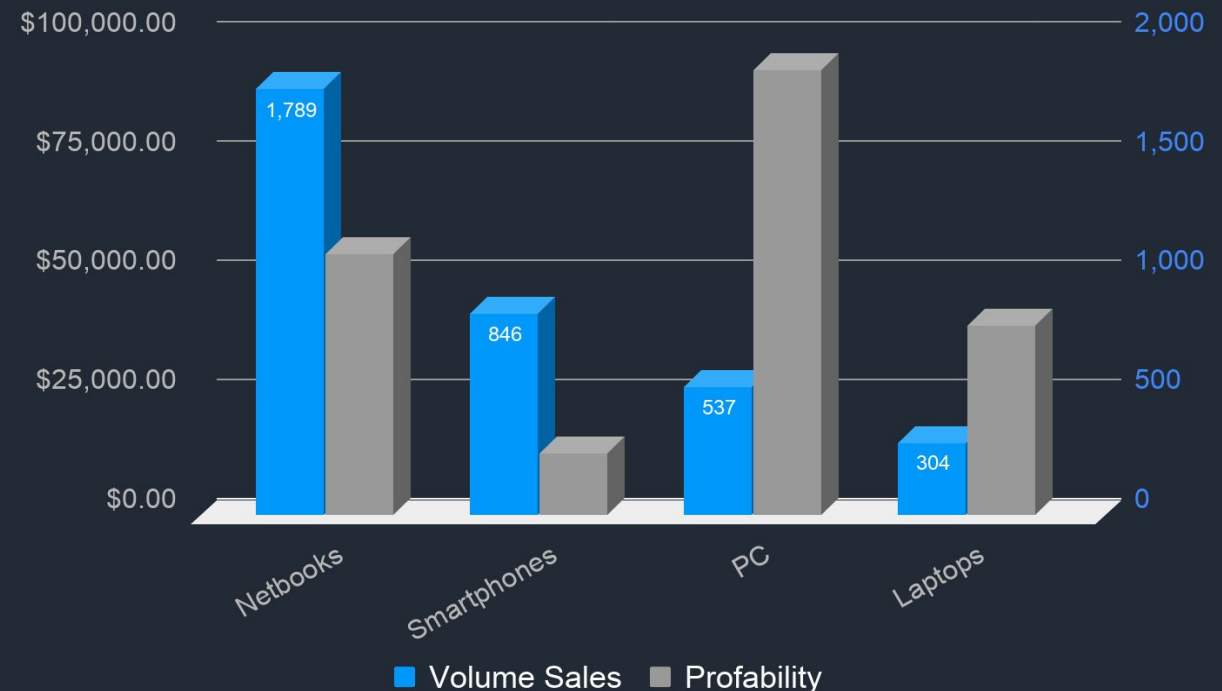
A true understanding on how **product types perform** based on overall sales

Methods

Through multiple regression methods, we've analysed **historical sales data** in order to **predict** overall sales volume

Results

According to our predictions
Netbooks and **Smartphones** are the most sold 'product types'



Market Basket Analysis

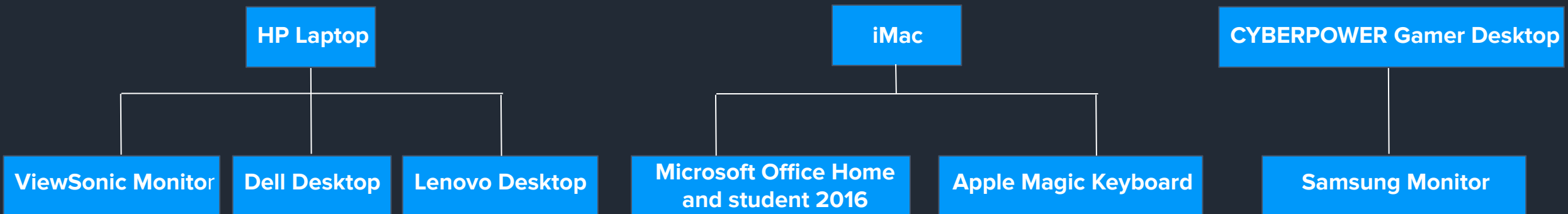
Questions

Better understand the **clientele** that Electronidex is currently serving and determine **product associations** to accurately evaluate an optimal partnership

Methods

Through a method, which examines **associations**, we were able to discover a few **valuable relationships** between products

Results



Future Applications

Customer Segmentation

Dividing a customer base into **groups of individuals** that are **similar in** specific ways; Correctly target **tailored marketing** messages to customers

Churn Prevention

Able to predict which **customers end their relationship** (when and why); **Cost of retaining** an existing customer is much lower than the cost of acquiring a new one

Risk Assessment

Construct 'decision support systems' that can **correctly predict** which are the **profitable** operations for our company



Any questions?

Thank you!