

List of a few custom developed projects by Kriyetic Japan Team

A few of the AI integrated projects, developed by Kriyetic Japan team members, for various national and international clients, are listed below.

- **Loan Application Analysis** Engine, for Indian banking networks, to validate loan applications and assign risk factors to help identify potential defaulters without rejecting valid clients.
- **Music Recommendation** Engine, for Mobile telephony service providers, to recommend list of songs to the consumers as possible selections for caller tune. The lists are built automatically from the customer's previous choices, the group behavior of other customers and the songs' characteristics.
- **Impact and Persistence Analysis of Drugs**, Drug data, which includes sales, usage, and user perception was analyzed to prepare past impact analysis of the drug and demographics together with future predictions.
- A **routing optimization** tool, developed for a **Transportation** company, where transport data, including number of vehicles, type of vehicles, capacity, fuel consumption, cost per unit time, number of people to be commuted, location of people, time when they need to arrive etc. are dynamically analyzed to prepare a complete assignment and scheduling of vehicles to optimize cost, capacity and time.
- Wireless **Sales Tracking and Analysis** System for retail sales businesses, where retail sales data, collected on mobile and POS platforms, are analyzed to model the sales pattern, as well as predictions about seasonal change, zonal sales, and demographics.
- **Fraud Detection** System, with purpose to detect possible fraudulent activities during a **financial transaction**, which includes account opening, banking or credit card transactions. The algorithm being developed tries to find patterns from a given set of data and raises alert if a violation is detected.
- **Stock Market Analysis**, the focus was to analyze stock market trends to come up with interesting predictors.



- **Business Lead generation and profiling** tools based on web crawling, information retrieval, extraction and machine learning.
- **Detecting Information Leaks in corporate emails.** The system was built with the purpose of detecting malicious emails leaking information - without doing a full text analysis. Several corporate clients were not comfortable with the idea of releasing the complete email for scrutiny, so this product tried to model such emails from other parameters, like usage pattern, salutation pattern, sender pattern and receiver pattern and used learning networks to achieve the goal.
- **Sentiment analysis** regarding **hotel experiences from Social Media** posts and comments to provide feedback to client hotels about the effectiveness and impact of their services and features.
- **Mobile subscriber behavior modeling and payment defaulting prediction** from usage and payment patterns.
- **Business Prospect Finding and Analysis** Tool. Given some key-phrases related to a business, it finds information from several sources and presents those as a report. The report provides data about relevant companies, stock quotes, management, press releases, and also an executive summary.
- **Intelligent Filtering Agent** was developed to talk with several search engines, downloading the results and filter them online based on user feedbacks. The user could dynamically give feedback on any set of documents to improve the filter.
- **Multi-agent based distributed optimization** for distributed resource utilization planning.
- **Face and Emotion Recognition based responsive behavior** of Pet Robots (ongoing).
- **Speech and Music recognition based responsive behaviors** in autonomous systems (Ongoing).
- **Autonomous driving** of Segway type two wheeled **mobile platforms** on real roads using multiple-sensor fusion based dynamic obstacle avoidance and adaptive path following.
- Others..

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