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DEEP-LEARNING BASED PERSONALIZED ADS GENERATION

Learn how **Algoscale** created a 360-degree solution to generate keyword-enabled text for the advertisement body and headline and improved metrics in the ad creation process

Industry Challenges +

Al-driven algorithms are helping businesses to analyze the existing ads and videos to discover new patterns of customer preference and automate the content to generate more targeted advertisements, which the traditional systems lack in context. Al-powered solutions outperform traditional CRMs in multiple ways by assessing current textual and visual features such as photos, videos, body text, and headlines.

Keywords

To deliver better analytics, a method to auto-generate ad texts with keywords was a challenge



There is a need for a faster ad-generation system with automated suggestions.

👌 Cost

There was a need to improve the cost metrics prediction like CPR, CPC, CTR, etc, and cut down on costs.

Problem Statement +

Create a solution that would save marketers time and money by generating personalized ad copy and media, which could be launched straight to social media.

Our Solution +

- To analyze the ads and obtain the desired insights, we used the Shapley Additive explanations (SHAP) model.
- We employed the Random Forest Regressor to forecast the cost metrics for various images, videos, body text, and headlines.
- In order to generate unique text that could be used by the client for the ads, we used Generative Adversarial Network (GAN)
- The solution enabled the platform to generate keyword-enabled text for the advertisement body and headline, which not only identified important features and patterns but also provided better metrics for targeting the ads.

Technology +



obtain the desired insights, using the SHAP model. Used Random Forest Regressor to forecast the cost metrics for various images, videos, body text, and headlines.

Generated unique text that could be used by the client for the ads, using GAN Enabled the platform to generate keywordenabled text which provided better metrics for targeting the ads

Tech Stack



Business Impact +

- We were able to scale the company by driving more conversions for their ads at lower costs, resulting in higher profits.
- With the assistance of AI, the ads were tailored to each audience segment in order to reach a large number of people.
- Our client observed up to a 3x boost in the ROAS.

Case Study: Deep-learning based Personalized Ads Generation

~ Client Challenge **Our solution Business Impact** A US-based agency that The client was looking for a Our 360-degree solution By better targeting and creates customized brand solution that would save enabled the platform to analysis of key audience segments, our client's ROAS experiences for every marketers time and money generate keyword-enabled increased by up to 3x and customer with an AI and MLtext for the advertisement by generating personalized based advertising platform. ad copy and media. They body and headline, which more conversions were The platform analyzes the needed a way to not only recognized achieved for their ads. Our automatically generate ad solution improved the design preferences of all relevant features and their target audiences to texts with keywords in order patterns but also gave suggestion and cost metrics. recommend posts, ads, and to improve metrics, save improved metrics for landing pages, thereby money, and speed up the ad targeting the advertising. driving a higher probability creation process. and user engagement.

WE 🧡 DATA

Algoscale is a Data consulting company covering data engineering, applied AI, data science, & product engineering. Established in 2014, we have helped wide range of organizations from start-ups to Fortune 100 companies ingest and store enormous amounts of raw data in order to translate it into actionable insights for better decision-making and faster business value. To know more, visit: https://algoscale.com/

🔀 askus@algoscale.com

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