Real-time Bidding Click-through Rate Prediction

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U.S.

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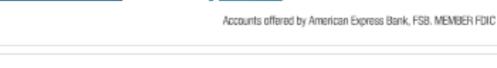
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iPad

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Jim Wilson/The New York Times

Updated Jan. 27, 2010

The iPad is Apple's new tablet computer.

Steven P. Jobs positioned the iPad as a device that sits between the laptop and the smart phone - and which does certain things better than both of them, like browsing the Web, reading e-books and playing video. There was enormous anticipation leading up to its release on Jan. 27, 2010. Media companies hoped that the device would finally lead to a viable way for them to charge for news, books and other material.

The iPad's features and specifications, now sharply in focus: The half-inch thi

Content: iPad

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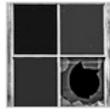


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BlackBerry® Curve™ 8900

The Thinnest & Lightest Full-QWERTY BlackBerry Smartphone Available.

www.BlackBerry.com/Curve

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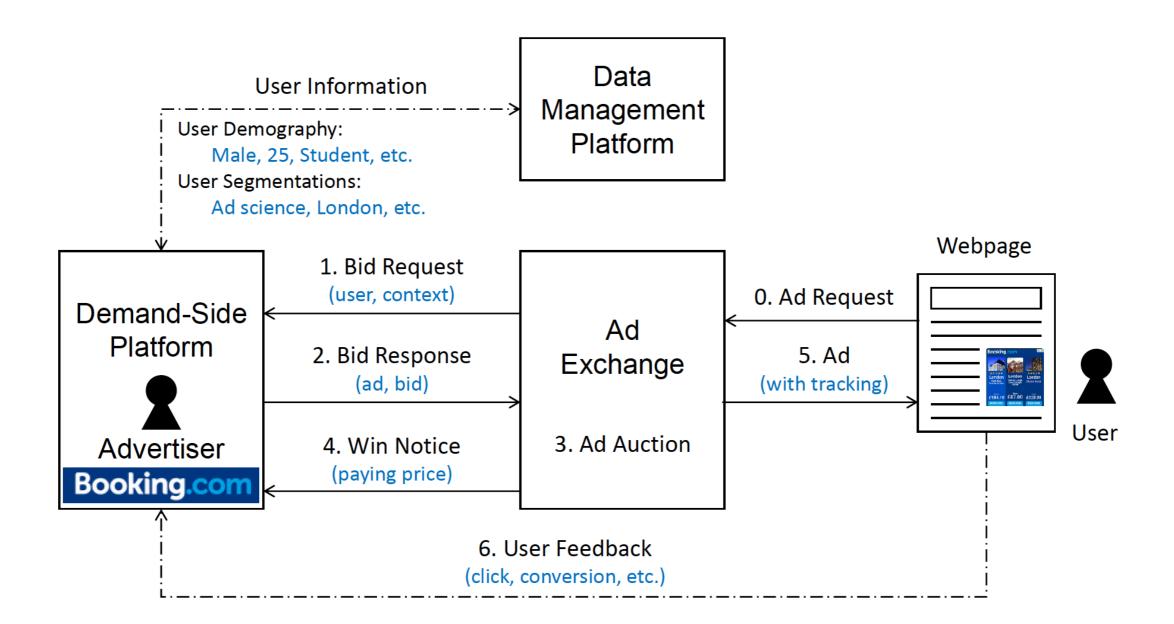
Mobile Tablet PC Solution Devices

www.camtechsystems.co.uk

Ads: PCs, mobile phone

Win an Amazing New

Real-time Bidding Workflow



Typical Features Example

Col #	Description	Example
*1	Bid ID	0153000083f5a4f5121
2	Timestamp	20130218001203638
†3	Log type	1
*4		35605620124122340227135
5	User-Agent	Mozilla/5.0 (compatible; \ MSIE 9.0; Windows NT \
6	IP	6.1; WOW64; Trident/5.0) 118.81.189.
7		15
8	0	16
*9	Ad exchange	2
*10		e80f4ec7c01cd1a049
	URL	hz55b0000003d6f275121
12		Null
13		2147689_8764813
14		300
	Ad slot height	250
16	_	SecondView
17		Fixed
*18		0
19		e39e178ffd1ee56bcd
*20	Bidding price	753
*†21	Paying price	15
*†22		a8be178ffd1ee56bcd
*23	Advertiser ID	2345
*24	User Tags	123,5678,3456

Optimising from the advertisers' perspective:

- Ads (creative) known
- Historical performance known
- First party audience data available
- Competition unknown



Counting features v.s. Model features e.g., 0.12% or 10 million for London v.s. 001000000 represents London

Considered Models

- Logistic Regression based on model features
- Probit Regression based on model features
- Gradient Boosting Regression Tree based on counting features
- Random Forest based on counting features

The programming code would be python and C++.

Thank you