

19697

11121

10048

Friday

Saturday

Sunday

14876

8709

7654

12119

4349

2951

1362

463

115

50%

75%

3 days 16:42:30

15 days 22:28:45

Insurance Analytics Result

74.88% got the quote after the app installation, 56.23% of total applicants/visitors were contacted by an agent, this is 75.10% of the applicants/visitors who got the quote were contacted by as agent. Similarly, 24.90% were not interested to be contacted. Sales Conversion rate is 4.34%.

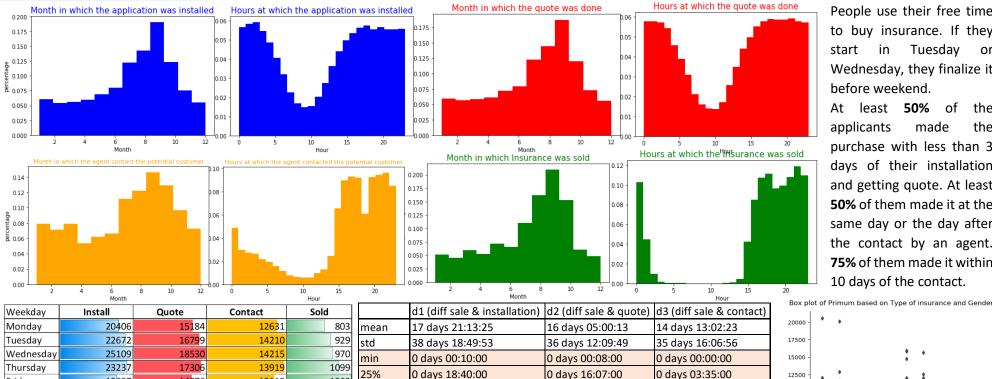
The most installation, getting quote, being contacted and sale happens in summer time, specially in September. Although people in summer installed the application almost 3 times more than winter time, the sales rate in only 13% more. (from 4.01% to 5.57%)

3 days 01:38:00

14 days 05:15:00

1 days 23:46:00

11 days 18:15:00



People use their free time to buy insurance. If they start in Tuesday or Wednesday, they finalize it before weekend.

At least 50% of made applicants the purchase with less than 3 days of their installation and getting quote. At least **50%** of them made it at the same day or the day after the contact by an agent. 75% of them made it within 10 days of the contact.

359 days 03:47:00 365 days 01:27:00 max 359 days 03:43:00 99058 74394 5741 Total 132290 Los Angeles has the highest premium while Washington DC has the lowest. Mean of Premium is the same for males and females. Age are Premium have very low correlation (0.157). Females have relatively higher rate of having accidents. The most customers are from New York city and the least from Dallas. Auto insurance has the highest mean. Auto and Home insurance have some outliers on upper side which belongs to luxury homes and cars. Females have wider range for premium. Life insurance have a few outliers on lower side. They can be those people who use some kind of subsidies or incentives from their work place. Rate of having ticket and insurance cancelation is close for both genders. The premium for Auto insurance for both genders are close. That can be due to type of cars females drive (cheaper car, not sportive) compare to males.

15000 12500 7500 2500 Life ins_type

Linear Regression	34%
Adaboost	64%
Random Forest	75%
SVR	60%
KNN	15%

5 Models were fitted on the data, Linear Regression, Adaboost, Random Forest and SVR, KNN. Among these models, Random Forest with n=1000 is the best. The accuracy is about 75%.