Лабораторная работа 2.

А) Логистическая регрессия:  
Количество переменных в модели – 42;

['campaign', 'pdays', 'previous', 'emp\_var\_rate', 'euribor3m', 'nr\_employed', 'job\_admin', 'job\_blue-collar', 'job\_entrepreneur', 'job\_housemaid', 'job\_management', 'job\_retired', 'job\_self-employed', 'job\_services', 'job\_student', 'job\_technician', 'job\_unemployed'

, 'education\_Basic', 'education\_high.school', 'education\_illiterate', 'education\_professional.course', 'education\_university.degree', 'default\_no', 'default\_yes', 'month\_apr', 'month\_aug', 'month\_dec', 'month\_jul', 'month\_jun', 'month\_mar', 'month\_may', 'month\_nov', 'month\_oct', 'month\_sep', 'day\_of\_week\_fri', 'day\_of\_week\_mon', 'day\_of\_week\_thu', 'day\_of\_week\_tue', 'day\_of\_week\_wed', 'poutcome\_failure', 'poutcome\_nonexistent', 'poutcome\_success']

Точность 0.9016

2193 43

203 61

Б) Логистическая регрессия с регуляризацией:  
Значение параметра регуляризации - 10  
Точность 0.9016  
2193 43

203 61

В) Анализ логистической регрессии:  
'campaign' -0.0178

'pdays' -0.2761

'emp\_var\_rate' -0.1747

'previous' -0.3731

'euribor3m' 0.9353

'nr\_employed' -1.1342

'job\_admin' -0.0126

'job\_blue-collar' -0.0301

'job\_entrepreneur' 0.0059

'job\_housemaid' -0.0157

'job\_management' -0.0298

'job\_retired' 0.0530

'job\_self-employed' -0.0226

'job\_services' -0.0329

'job\_student' -0.0042

'job\_technician' -0.0508

'job\_unemployed' -0.0024

'education\_Basic' 0.0147

'education\_high.school'0.0152

'education\_illiterate' 0.0069

'education\_professional.course' 0.0190

'education\_university.degree' 0.0328

'default\_no' 0.0282

'default\_yes' -0.0053

'month\_apr' -0.0390

'month\_aug'0.0894

'month\_dec' -0.0426

'month\_jul' 0.1144

'month\_jun' 0.0705

'month\_mar' 0.1204

'month\_may' -0.1710

'month\_nov' -0.0212

'month\_oct' -0.0131

'month\_sep' -0.1111

'day\_of\_week\_mon' 0.0002

'day\_of\_week\_thu' 0.0086

'day\_of\_week\_tue' 0.0161

'day\_of\_week\_wed' 0.0234

'poutcome\_failure' -0.2308

'poutcome\_ nonexistent' -0.3147

'poutcome\_success' 1.0104  
Переменные, которые можно оставить (обозначение и интерпретации):

'poutcome\_failure', 'poutcome\_nonexistent', 'poutcome\_success' 'euribor3m', 'nr\_employed'

Г) Машины опорных векторов:  
Точность 0.8996

2208 28

223 41