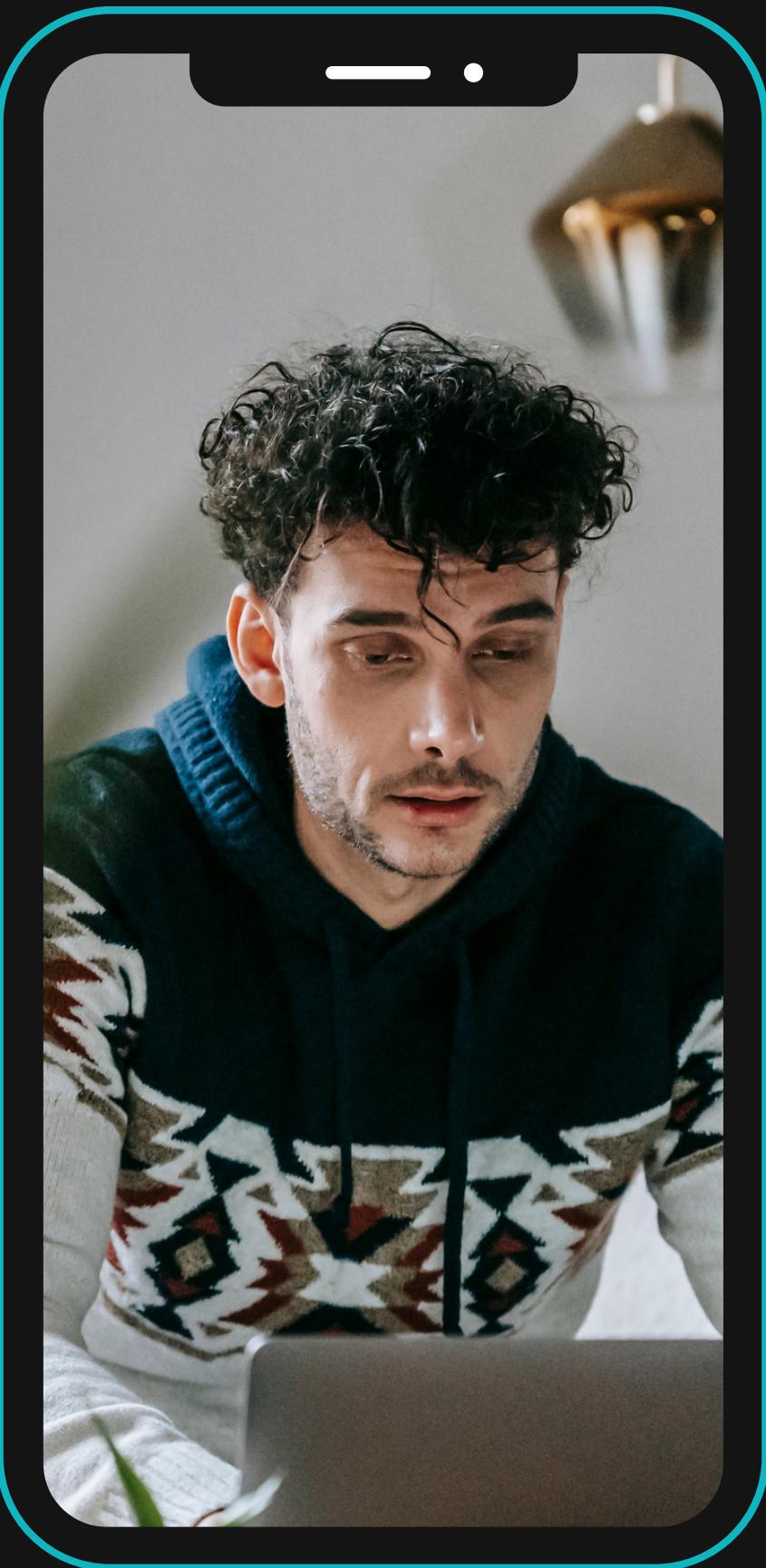


Data Visualization

What affects to the employment rate of Kazakhstan?

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Problem

Today people finding it hard to choose a career path they would follow and even after doing so job market is tough to get through and get hired.



Relevance

The given project is willing to address multiple problems of job searchers in this market: starting from choosing the right and in-demand profession, finding a job that is suitable for you.

Goals



Addressing unemployment problem in Kazakhstan among fresh graduates

Identify a highly paid area in Kazakhstan

Analyzing jobs by regions

Identifying connection between world events and job market in Kazakhstan

Hypothesis

1.

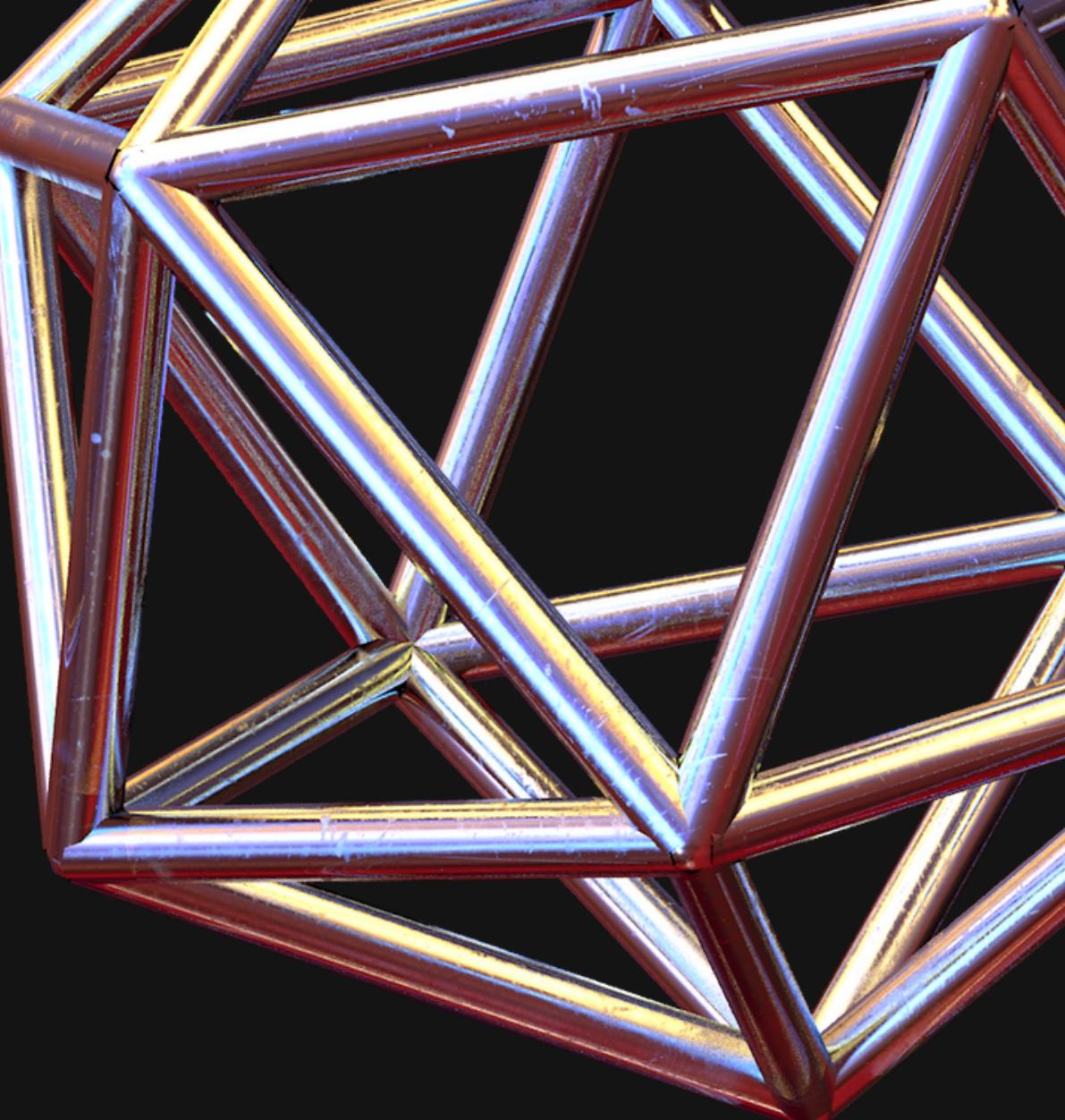
Jobs in the IT sector have become more in demand over the past 7-10 years.

2.

It is easier to find a job in larger regions.

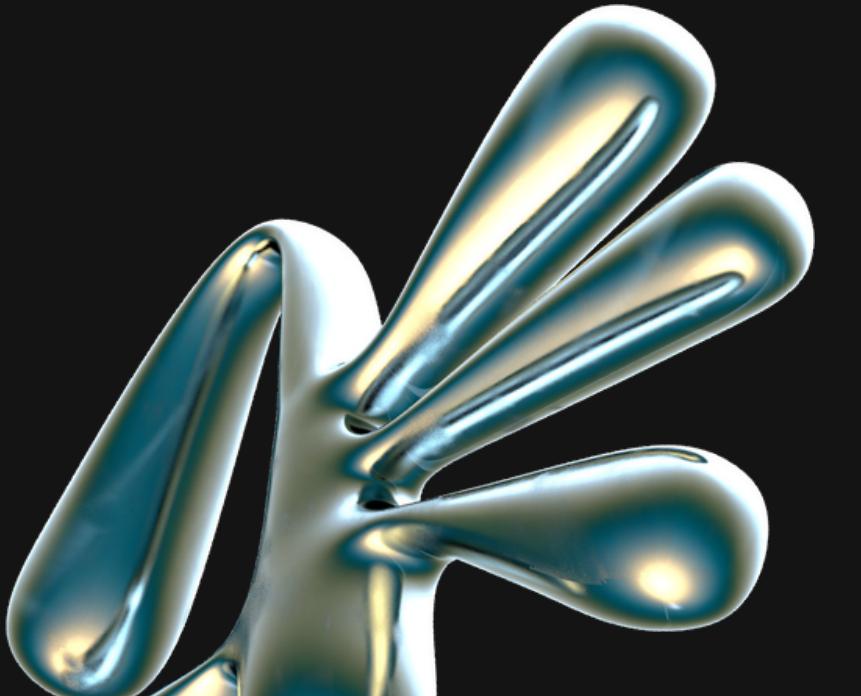
3.

Influence of major events in the world on the demand for professions and salaries.



Data

- Platforms with statistics of Kazakhstan
stat.gov.kz - main dataset
- Data from websites with major events



Dataset fields

Feature name	Explanation	Remarks
Region	The region of Kazakhstan	
Year	Year	
Month	Month	
Flag_events	Were there any major events in this month (period). If not - 0, if there were minor events - 1, if there were major events - 2.	Data will be collected from various sources on the Internet manually
Avg_salary	Amount of average salary	
#of employee, ths	Number of employee	
Youth_rate, %	Rate of young people (15-28 y.o.)	
Age_group	Age group. There are 2 age groups: 15-28 (according to International Standard) and Others.	
Edu_type	Type of education: high and incomplete high education secondary professional education basic, secondary, general, primary education	
Activity_type	type of economic activity	
Emp_type	type of employment: wage-earners self-employed workers unemployed	
Gender	Type of gender: Male or Female	
Loc_type	Location type: City Village	
Unemp_rate, %	Unemployment rate	
Man_days	Number of man-days per 1 employee (per year)	
Min_salary	The amount of minimal salary	
Indexing, %	The rate of indexing (compared to last year)	

Example of filling fields

Feature name	Values
Region	Алматы
Year	2010
Month	январь
Flag_events	1
Avg_salary	92462
#of employee, ths	183
Youth_rate, %	5,8
Age_group	15-28
Edu_type	high and incomplete high education
Activity_type	IT and connection
Emp_type	wage-earners
Gender	male
Loc_type	city
Unemp_rate, %	5,5
Man_days	220
Min_salary	14952
Indexing, %	115,3

Example of world events and their rates

Period	Flag_events	News
2010-01		1 - earthquake in Haiti 2 - the crew of the International Space Station received direct access to the Internet 3 - The Customs Union of Russia, Belarus and Kazakhstan came into force.
2010-02		1 election of Viktor Yanukovych as President of Ukraine
2010-03		Grigory Perelman has been awarded a \$1 million prize for proving the Poincaré conjecture. This is the first ever award for solving one of the Millennium Problems.
2010-04		1 - revolution in Kyrgyzstan 2 - Eyjafjallajökull volcano eruption in Iceland 3 - The world's first tablet laptop, the iPad, from Apple, went on sale in the United States. 4 - Europe's first 3D TV channel launches in Britain 2 5 - The world's first solar-powered aircraft made its first test flight.
2010-05		1 - In early May, Greece was engulfed in strikes and mass protests against government plans to drastically cut public spending. 2 - In Japan, the robot I-Fairy held the world's first official wedding ceremony
2010-06		1 - the main stage of the Mars-500 project has started 2 - international exhibition Electronic Entertainment Expo 1 3 - 1st Android Robot Olympic Games 2010 (Harbin, China)
2010-07		Roza Otunbayeva took office as the President of the Kyrgyz Republic 2 in transition, becoming the first female president in the CIS
2010-08		1 - In August, Pakistan was the victim of catastrophic floods, the worst in 80 years. 2 - US President Barack Obama officially announced the end of the 1 military operation in Iraq
2010-09		0 -
2010-10		1 The Instagram app has been released
2010-11		1 - NATO summit in Lisbon 2 - protest in London and Rome by schoolchildren and students 1 against education reform and higher tuition fees
2010-12		1 OSCE summit in Astana (Kazakhstan)

