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ABOUT THE SIGNIFICANCE OF STATISTICIAN PROFESSION

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According to the World Bank, our state is on the fifth place in the world by quantity of emigrants. Only within first two decades of independence more 6,5 million citizens left Ukraine. By results of the research conducted by sociological company Gallup, 21% of Ukrainians are thinking about emigrating abroad, that is every fifth. More than half of the questioned said they wish to improve the standard of living, and 10% named the only concrete reason because of which they do not wish to stay in Ukraine, it is an absence of possibility to find a good job here [1].

Chances to get a job mainly depend on the selected speciality. Among the most perspective professions which will appear according to the forecasts of British research company Fast Future to 2030 [2] are brokers and traders of time bank, expert in scientific ethics, experts in quarantine, surgeon in memory increase, expert in creation of artificial organs, nanophysician, workers of vertical farms, farmers and cattle breeders who work with gene technologies, adviser for elderly people, social worker of social networks, developers of alternative types of transport, space pilots, architects and guides, expert in struggle against climate change, weather police, virtual lawyer, managers of avatars and virtual teachers, a personal brand-manager, experts in development of information products of a personal direction (in address informing), information utilizer, manager of virtual space.

For today a professional training not always meets requirements of the market of work even in leading countries [3]. So, despite that world financial crisis of 2008 first of all caused prompt job cuts in bank sector – to the main employer of economists, and employment of experts in this field is problematic, economic sciences in high schools are studied worldwide by the considerable quantity of students. At the same time a wide spectrum of possibilities to find a job, as practice of the present and forecasts of scientists show, is given by mathematical education. Practically in all developed and developing countries more and more in demand are experts in the sphere of information-analytical maintenance of decision-making – experts in the field of gathering, sorting and analysis of mass data in social and economic, organizational, politic and legal, defensive, etc. spheres, managers of databases, experts, analysts who possess knowledge of modelling [4].

The expert who is engaged in development and studying of quantity indicators of development of society and social production, their state and change – by means of statistical analysis and modelling of economic processes is called statistician.

There is a set of different professions – these are professions of type [5] „person – person” (doctor, teacher, psychologist), „person – technics” (carpenter, metallurgist, mechanical engineer), „person – nature” (seed grower, zootechnician, agriculturist), „person – artistic image” (actor, musician, designer) and „person – sign systems”. Statistics is a tool, mastering of which gives the chance engage in self-realization in many spheres. But, in particular, the last from the above mentioned group of professions provides as the main work subject – conventional signs, figures, codes, natural or artificial languages. A modern person is deep in the world of signs and sign systems. Plotting, schemes, cards, numerical data, tables, formulas – all this is integral displays of modern civilisation. So, relevant experts who work with sign systems, prepare and store information, analyze it, create theoretical bases for improvement of cars, mechanisms, create electronic-computer facilities are needed. Mathematicians, astronomers, chemists who create the information work with abstract-mathematical systems. Laboratorians, bookkeepers, statisticians accumulate, analyze and process information.

The name of classification grouping „Technical experts in the field of management” with a code 343 of national Classifier of professions [6] contains component 3434 „Support personnel in sphere of statistics and mathematics” in which professional names of work – actuary assistant, economist-demographer assistant, economist-statistician assistant, etc. are given which a person with bachelor's degree in speciality 112 „Statisticians” can perform [7]. Professions of experts are under code 2, heads, managers (managing directors) – under code 1 for persons with master diploma and higher. To be competitive in the work market today not only economist, financier, manager, and people who connect themselves with the following fields of activity should master statistical methods of gathering, processing and analysis of the data [8].

Gaming (playing video games on collective tournaments) – calculations connected with potential players, check of channels and advertising efficiency, simulators of prizes etc. The work is very interesting and people are in constant demand.

Risk-management – electronic trade. All that is connected with credit cards at purchase in the Internet is based on the statistician.

Trading networks and shops – it is obvious that they can't do without statistician. What product to sell, under what price, how it is better to perform, to whom exactly to offer the discount – all this is calculated to receive the greatest probability of purchase.

Banks – all financial forecasts and analyses, and also forecasting of behaviour of clients.

Research centres – planning of interrogations of consumers and their processing.

Pharmaceutics and hospitals – all researches, eventually, should be statistically confirmed.

Quality Assurance engineer (QA) – engineer in quality maintenance – degree in statistics makes a valuable employee from a simple QA.

Cellular communication companies, television companies – the analysis of the market of consumers and advertising.

Insurance companies and actuary – the sector strongly „existing” on the statistician. To work as an actuary (an expert in risk evaluation, a financial analyst and an adviser in insurance sphere, a person who applies actuary mathematics) it is necessary to have corresponding education, but the salary of experienced actuaries is high enough.

Teaching – as statistics is an obligatory subject in the majority of popular degrees, a niche for teaching activity is huge.

Knowledge in statistics can give a possibility for wider choice of professions which develop in the world. So, according to the version of supervising technical mass-media, in 2015 cloud technologies became a „new norm”. The reason lies in the fact that with their help it is possible to reduce about 90% of expenses through digitizing of information-intensive processes. Experts predict that year after year the world will go more strongly to clouds, and only residual information will be stored on physical drives. Studying of flexible possibilities of cloud technologies will help to improve approaches to everything, starting with protection of the data and finishing with group operations [9].

Cloud computing is a technology of distributed data processing in which computer resources and capacities are given to the user as an Internet service, that is a working platform on the remote server [10]. The following models of granting of services by means of the cloud are defined [11]: (SaaS) (software as service which works on the basis of a computing cloud, these are Gmail and Google docs services); platform, for example, Google Apps gives application for business in on-line mode, the access to which is given with the help of the Internet browser whereas software and data are stored on Google servers; Infrastructure as Service (IaaS) – the greatest players in the market of infrastructure as service are Amazon, Microsoft, VMWare, Rackspace and Red Hat though some of them offer more than just infrastructure, they are united by the purpose to sell base computing resources. The example of architecture of cloud computing can be found by reference [12].

Also more and more the companies today try to monetize business processes in mobile spaces, for example, to sell goods or to render services. In 2015, more than ever, an expression is fair: „If you do not have mobile-strategy – you do not have future”. 2015 according to forecasts of experts becomes the year of peak synergy between mobile and cloud technologies, more and more additions will work on different platforms [13].

Accurate understanding of business problems and requirements of clients allow to apply technologies strategically. The best mobile decisions completely integrated into all aspects of business from sales and marketing to manufacture and operation also allow to increase incomes, to lower expenses, to operate risks [14]. The confidence that Internet network is able to satisfy need of users in data processing is the common feature of the companies and the enterprises which build their products on the basis of cloud computing or with mobile-strategy attraction.

Thus, the society requires experts who would be able to work with data files, to be confident users of Internet network as usage of cloud computing/mobile strategy, etc. is impossible without it, to analyze received information, to be able to structure it and to inform clients or users in a comprehensible way, to use for acceptance of the grounded and sensible decisions at all levels and in all spheres. Statistics is a science which has history [15], has not lost its significance now and, undoubtedly, the knowledge of it will play an important role in the future.

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