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ABOUT DATA ANALYSIS IN THE MODERN WORLD

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Abstract

This in the article whole in the world data about analysis, statistics, Machine learning, Natural Language Processing instructions cause passed. Data analysis in python the process to use and program system Create cause passed.

Key words: *Data analysis, statistics, Machine learning, Natural Language Processing*

Modern in the world, data place of analysis (data analysis). his own importance by increasing going important from fields one is considered Today's in the day data, our of our lives each one in the field is being collected, as well as our the work our activity and our our practice collected data to the meeting and to bring depend. Information analysis, this data between to each other dependencies identification, questions and rings Create and of information clear, simple and sure one way to be defined help gives.

Modern in the world, data analysis for one how many tools available, such as Python programming language and from him user libraries (such as Anaconda, NumPy, Pandas, Matplotlib), R programming language and from him user libraries, MATLAB programming language and again another many helper tools there is These tools through , data analysis make , their graph appearance create , historical data analysis perform , table and in diagrams present reach and another many opportunities done increase can.

Information analysis, different in the fields is used, e.g business, economy, statistics, medicine, security and others. These areas are information analysis apply through to us useful information present is enough and our our decisions better acceptance to do help gives.

Information analysis science, data collection, analysis to do and learning according to to practices based on scientific is the field. This is science, information with work and from the data of use modern indicators, data analysis, data analysis to do methods, data bases and another data with depends topics own into takes.

Information analysis, desired kind of information collects and learning all to areas effect shows. Information of analysis indicators in business, politics, science in studies, data technologies in the field and another many in the fields installed.

Information analysis Science, information with performance, data bases build data analysis to do and from the data to learn learns. Information analysis, mathematics, statistics, computer science, information field and another scientific from fields used without, data with work methods and them analysis in doing applied technical tools learns.

Information analysis science, data collects and learning all to areas effect shows. Information of analysis indicators in business, politics, science in studies, data technologies in the field and another many in the fields installed.

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Information analysis, large data bases work output, data analysis to make, quality and reliable information collect and learning from data views and measures create as well as computer to systems and information technologies depends scientific in studies is used.

Business: Information analysis in business product or of services for sale, central formation, marketing campaigns, purchases and sales, price use and another business processes analysis to do for useful will be.

Economy: Data analysis economy in the field is used. In this area, quantities, prices, production release and sale, investment to do and another economic processes analysis to be done can.

Statistics: Data analysis also extensive in statistics is used. Statistics, data distribution, orderly respectively present to be done and data between relationships in determining help gives.

Medicine: Medicine in the field of information analysis doctors and medicine workers by useful will be Information analysis, treatment management, profession identification, medicine statistics and a lot another medicine to questions answer in giving help gives.

Security: Information analysis safety in the field is used. Information analysis using, security streams, site reports, someone entry identify, data protection to do and etc.

Information analysis different in the fields useful will be and each one in the field, analysis methods and tools is used.

Statistics analyzes: This is an analysis method statistics information collection, analysis to do and help to give own into takes. This is the method statistics formulas, signs, graphs and another tools own into takes.

Machine learning: This method data in the analysis learning algorithms, automatic selection, explanation, prediction to do and another processes own into takes. This method is search machine, test system, stepping system and another tools own into takes.

Natural Language Processing (NLP): This method text information analysis to do for is used. This method, data analysis to do for text reading, text explanation, synchronization to do and another tools own into takes.

Data mining: This method data from the base information analysis to do for is used. This method, data his own in the codes has been in order analysis to do and determination for tools own into takes.

Data visualization: This analysis method, data graphics and to the drawing transfer for is used. This is the method statistics graphics, pie shapes, infographics and another data visualization for tools own into takes.

Humanity development present stage collected data of the amount exponential growth with is described. To research according to [3], by 2007 come humanity 2.9·1020 bytes in volume information storage opportunity have was. Large size data scientific experiences cause releases. So, 2016 April in the month obtained 300 TB experimental data to the public present done. Many technical of systems performance big in volume information collect with together will come For example, the Boeing

787 plane each one in flight about 500 GB of data work emits [5]. However, collected from the data useful information get for this to information known processing to give need



- In general receiving information analysis to do hidden patterns to find and new knowledge Create process as determination can.
- Data analysis of doing main tasks forecasting, classification, similarities search, recommendations to give and deviations determination enters.
- Large size collected information analysis to do necessity many in companies specialized divisions to create take came Some companies, for example, Yandex in the field their own education projects done are increasing

Data analysis to do in the field active scientific studies take is going SCOPUS data in the base indexed publications analysis scientific affairs number stable grow up that he is going shows (Table 1).

Key words	**Time intervals**				
	1991-1995	1996-2000	2001-2005	2006-2010	**2011-2015**
Data Analysis	221072	333879	536742	906164	**1008666**
Machine Learning	1889	2958	9301	26388	**43548**
Expert System	13073	14372	19861	34466	**41352**

Data Mining	1376	4662	18185	42347	**59646**
Big Data	1321	2554	5110	10544	**28220**
Deep Learning	**263**	**596**	**1221**	**3377**	**7410**

Software supply

Software supply information analysis to do systems is the center. Data analysis to do systems when designing the following of approaches use can:

Data collection: Data analysis in the process, data collection the first and important is a step. This is the data one in the place collect or one how many from sources to receive own into takes _

Data study: Data analysis in the process, data explanation and learning is also important. In this process, data statistics analysis, data mining, machine learning and another analysis tools using is studied.

Visualization: Data analysis in the process, data explanation and analysis to do for different kind of visualizations is used. This is a statistic data, graphs, diagrams and another visualization methods own into takes.

Analysis: Data analysis in the process, data analysis to do important. This is a statistic analysis, data mining, machine learning, NLP and another analysis methods use with done is increased.

Reporting: Data analysis in the process, data reporting is also important. This is the calculation companies for, as well as products sales strategies to change help gives.

Analysis change: Data analysis in the process, the analysis change is also important. This is a statistic analysis, machine learning and another analysis methods received to information is based on

1. " Checked " is common purposeful software from supply use (for example, Microsoft Excel);
2. Mathematician to issues directed software from supply use (for example, Matlab, Octave, R);
3. Ready from libraries used without specialized software supply, that's it including information again of work special functions complex work exit.
4. Specialized software supply work on the way out information again work of functions ready from libraries use recommendation will be done. So by doing neuron networks analysis to do from the FANN library for use can, this library versions C#, C++, Java, Python, R, Matlab programming in their languages available, the image again work problems solution to do for and from the OpenCV library your use can. This library Python, Java, Ruby, Matlab and another programming in their languages there is

Data analysis to do system Create

Data analysis to do system Create for the following common the algorithm ofter what we do can:

1. Duties installation.

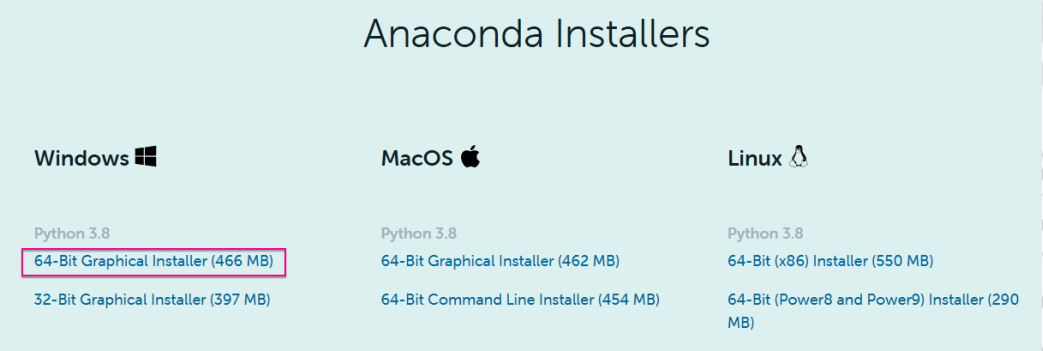
2. Information sources to determine.
3. Data again work method and algorithm choose.
4. Equipment platform choose.
5. Software supply choose or work exit.
6. Installed the system check.

Data analysis from the Anaconda program we use

AnaConda - from 5 million more than to users have The Anaconda program is easy via Python with information again work and the car learning for directed .

Anaconda, Python programming of the language data warehouse own into received data in the analysis user by used one program package and this of the package also named Anaconda. This is a program package , from the Python libraries organize found is the data analysis , mathematics , statistics and exercises to get help giving one how many big the library own into takes _

Anaconda, libraries of the collection more easy loading and to be managed provides that _ libraries interactive create , test and apply opportunities provides .



Anaconda for Windows, macOS and Linux there is is one _ installation through all on platforms to work lowering can _

Anaconda Navigator, using Anaconda software used the interface own into takes _ Using Anaconda Navigator users download Anaconda get and application , library packages installation and management , one how many in projects work , libraries Create and another actions do it they get

Anaconda, Python programming in the language data analysis facilitate , one how many from libraries use and this libraries through exercises done increase for very good one tool as is considered .

Anaconda, Python programming in the language installation and Python packages manage for wide spread out is a platform . When Anaconda is installed , you can program in Python language , applications manage for Anaconda Navigator, Conda and like Anaconda Prompt manuals and one how much wide spread out packages (such as NumPy, Pandas, Matplotlib) and this of packages enabled features and options (such as Jupyter Notebook, Spyder) are available will be

Install Anaconda for the following steps do :

Anaconda official to the web page come in download get : https://www.anaconda.com/products/distribution

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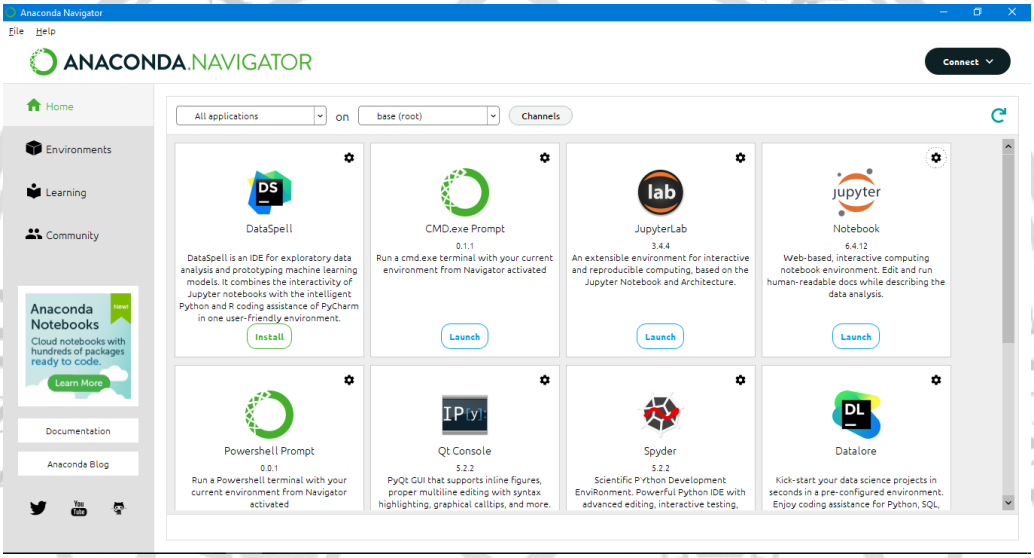
Install Anaconda file download take _ Yours operational for your system (Windows, MacOS or Linux). suitable has been the file choose _

Download received the file initial application with open _ Usually , the application the most like "Anaconda-Navigator" or "Anaconda Prompt" or "Spyder" above options will be

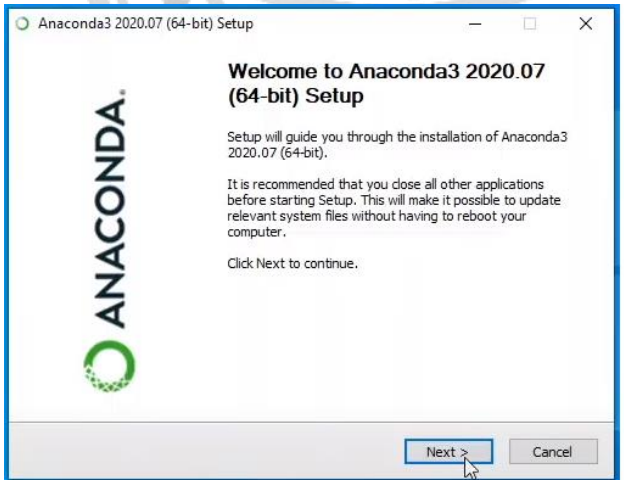
Installation process start for , installation file open it and installation stages explain _

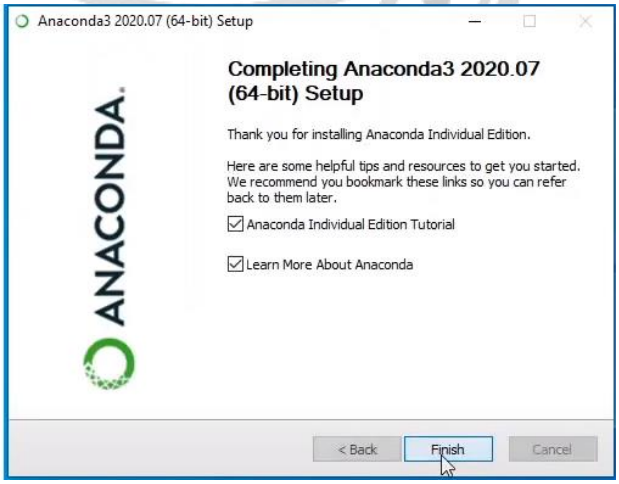
Installation to send to "Install" button press _

Embedded Anaconda platform for necessary features to open for , such as Navigator or Anaconda Prompt manuals inside necessary programs to work put down The program by installing from what you received after him to work put down

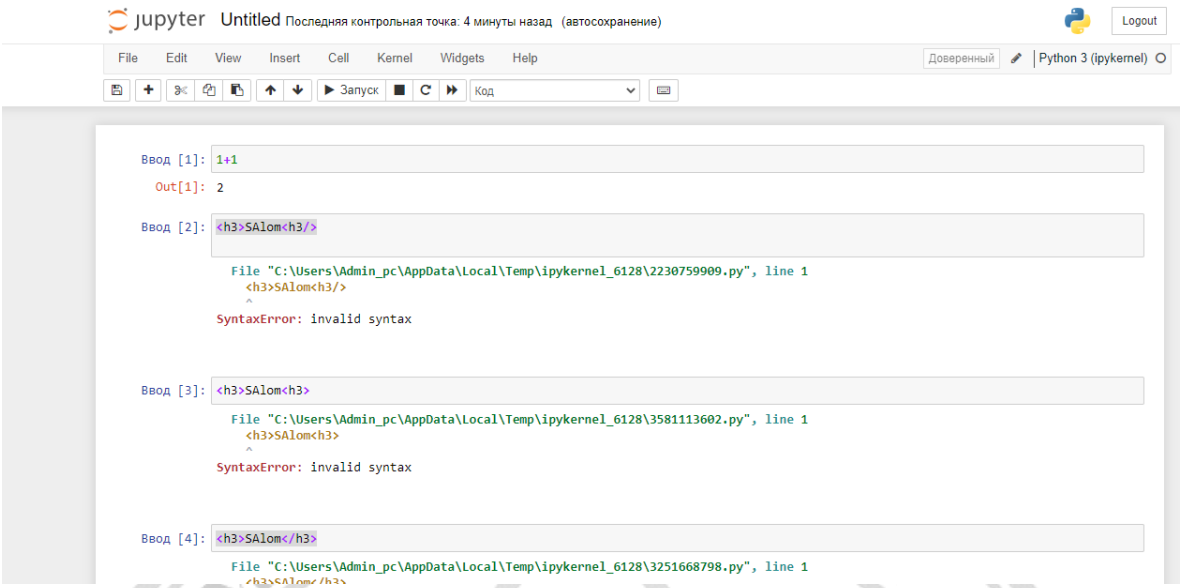


This window displays Anaconda Navigator passed . Information analysis Python language in doing for Jupyter Notebook application we use





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Python codes with one in line used without is used .

Used literature .

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