

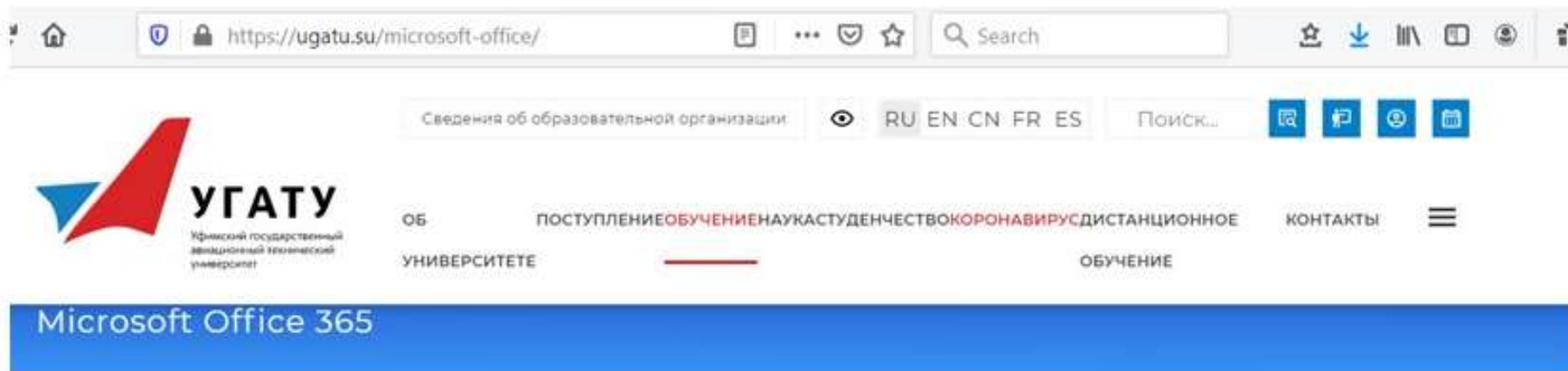
Эконометрика

Инструменты

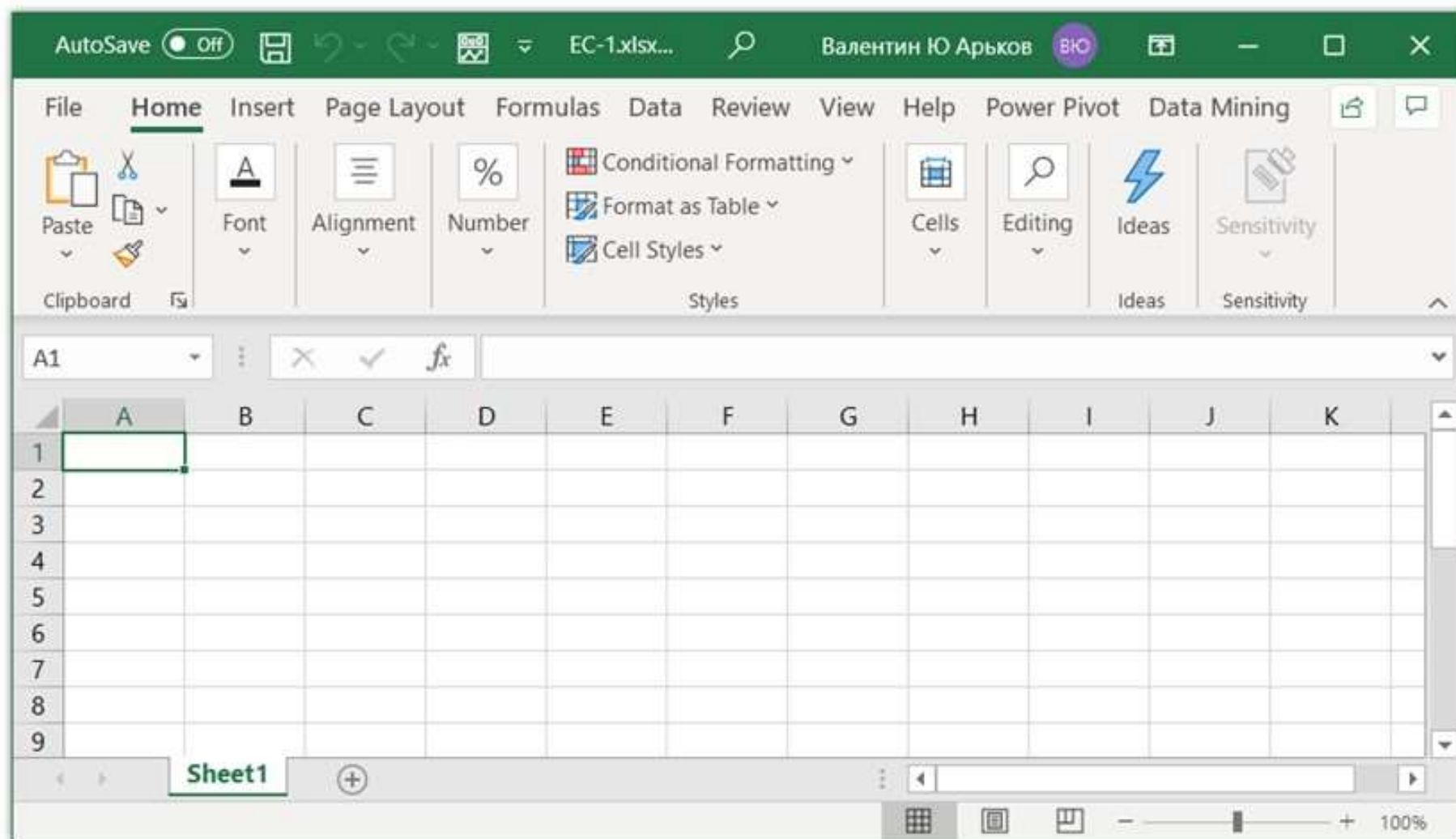
Инструменты

- Электронная таблица
 - Excel, Libre Office Calc, Google Sheets...
- Язык программирования
 - Python, R, Matlab, C#...
- Варианты приложений
 - Настольная, облачная, мобильная

Microsoft Office 365



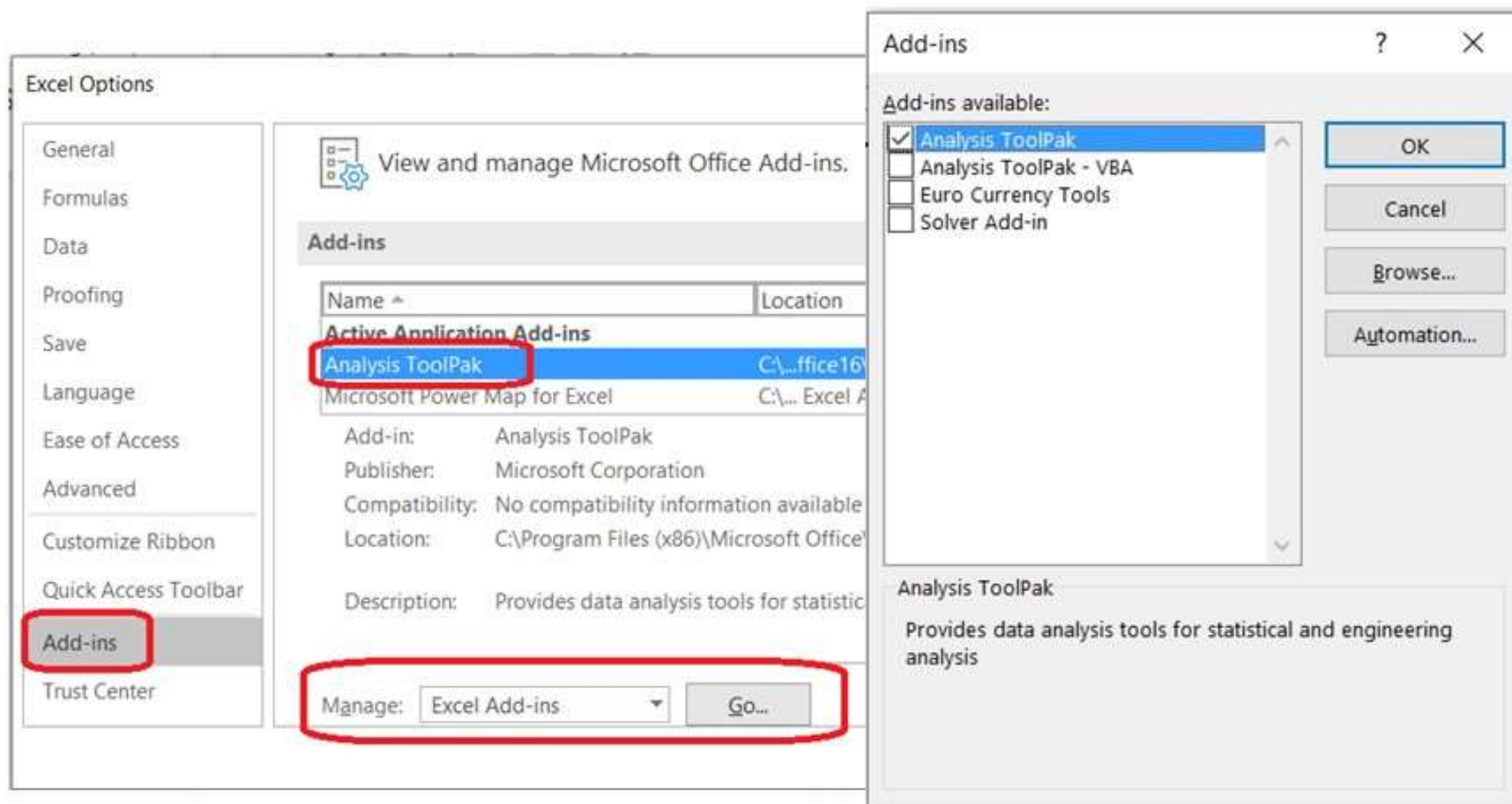
MS Excel



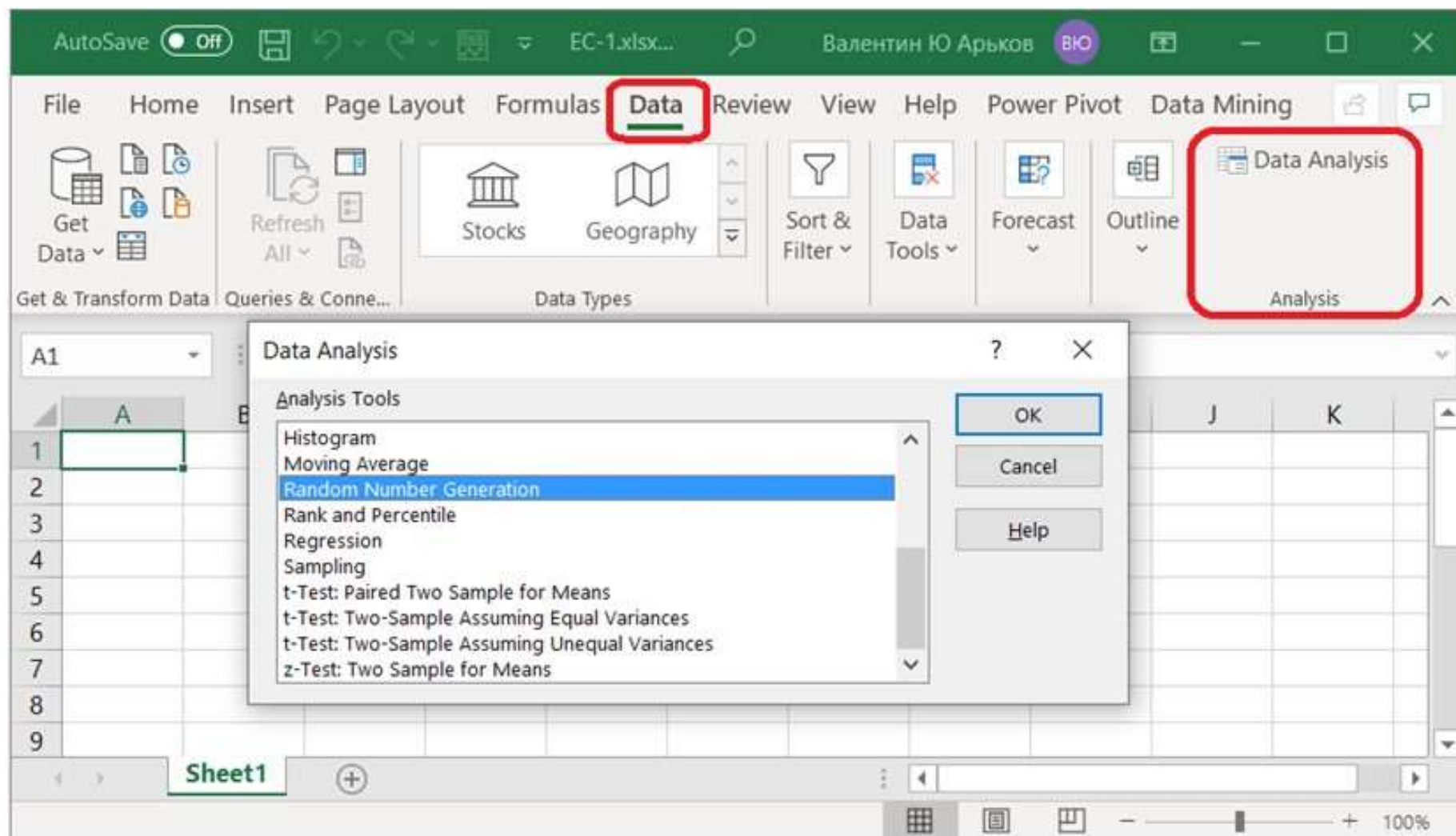
Задание

- Microsoft Office 365
 - Установить и активировать

File – Options – Add-ins – Excel Add-ins – Go – Analysis ToolPak



Data – Analysis – Data Analysis



Задание

- Включить надстройку «Анализ данных»
- Запустить надстройку

Libre Office



The screenshot shows the LibreOffice download page in a web browser. The browser's address bar displays the URL <https://www.libreoffice.org/download/download/>. The page features a green header with the LibreOffice logo and navigation links: DISCOVER, DOWNLOAD, GET HELP, IMPROVE IT, EVENTS, and ABOUT US. The main content area is titled "Download LibreOffice" and features a large green button with a download icon. Below this, the text "LibreOffice 7.0.4" is displayed, followed by a description: "If you're a technology enthusiast, early adopter or power user, this version is for you!". A dropdown menu is open, showing the following options: Windows (64-bit), Linux (64-bit) (deb), Linux (64-bit) (rpm), macOS (64-bit), Windows (32-bit), and Windows (64-bit). To the right of the main content, there are several green buttons: DOCUMENTATION, PROVIDE FEEDBACK, JOIN THE PROJECT!, MEET US AT EVENTS, DISCOVER LIBREOFFICE, and GOOD LOOKING DOCUMENTS.

https://www.libreoffice.org/download/download/

English | 中

LibreOffice
The Document Foundation

DISCOVER ▾ DOWNLOAD ▾ GET HELP ▾ IMPROVE IT ▾ EVENTS ABOUT US ▾

Download LibreOffice



 **LibreOffice 7.0.4**

If you're a technology enthusiast, early adopter or power user, this version is for you!

[LibreOffice 7.0.4 release notes](#)

Supplementary Downloads:

- [Help for offline use: English \(US\)](#) (Torrent, Info)
- [Key management software](#) for the new OpenPGP feature (external site)

Choose your operating system:

- Windows (64-bit)
- Linux (64-bit) (deb)
- Linux (64-bit) (rpm)
- macOS (64-bit)
- Windows (32-bit)
- Windows (64-bit)

[DOCUMENTATION](#)

[PROVIDE FEEDBACK](#)

[JOIN THE PROJECT!](#)

[MEET US AT EVENTS](#)

[DISCOVER LIBREOFFICE](#)

[GOOD LOOKING DOCUMENTS](#)

Libre Office Portable

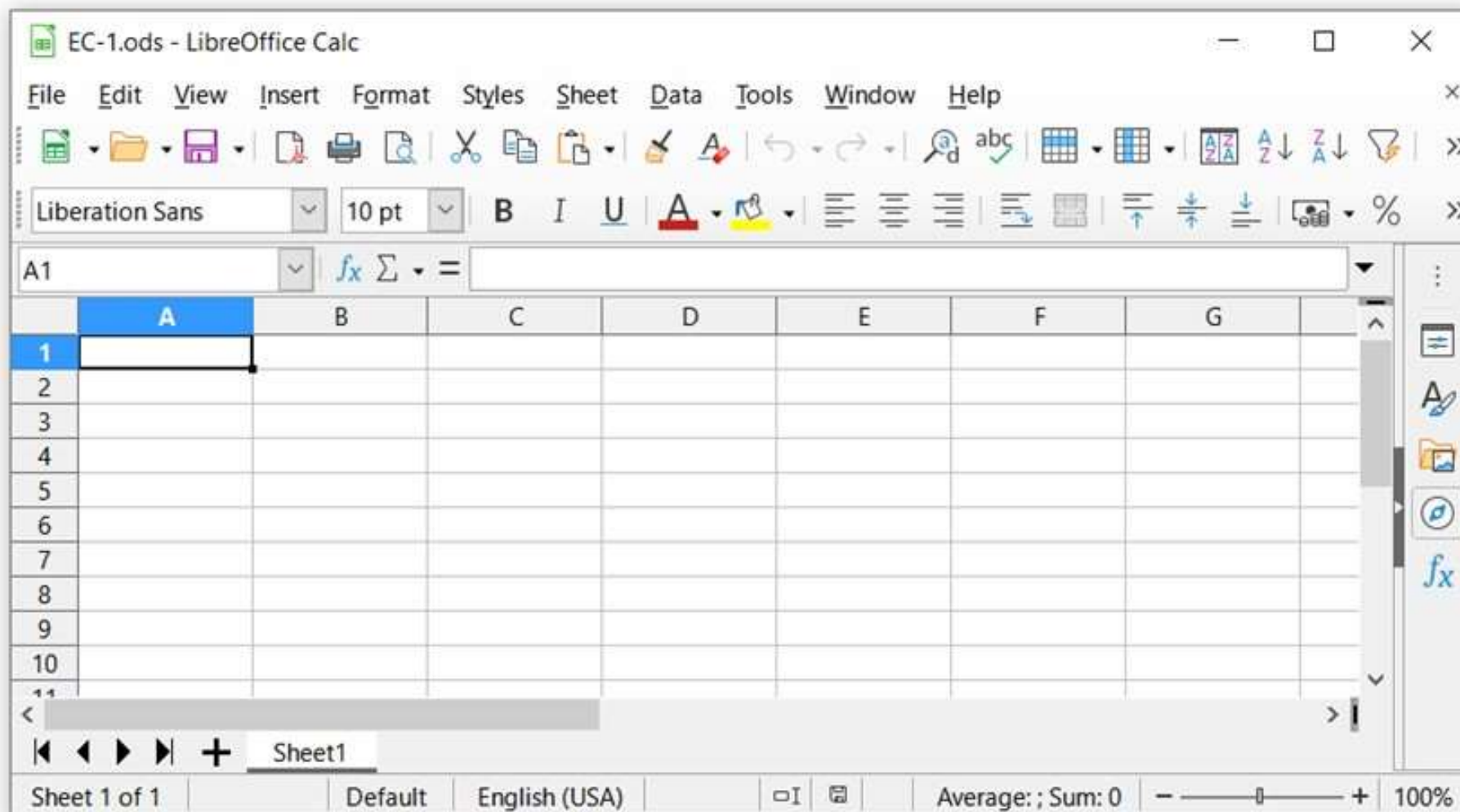


Portable versions LibreOffice Portable

LibreOffice Portable is a full-featured portable version of LibreOffice for Windows – including a word processor, spreadsheet, presentation tool, drawing package and database – packaged as a **portable app**, so you can take all your documents and everything you need to work with them wherever you go. It is packaged in **PortableApps.com format** so it can work with the **PortableApps.com platform** and its automatic updater and app store, work with other portable menus, or work by itself from a USB, cloud or local drive. And it is open source and completely free.

- [LibreOffice 7.0.4 Portable MultilingualStandard <--> LibreOffice 7.0.4 Portable MultilingualAll](#)
- [LibreOffice 6.4.7 Portable MultilingualStandard <--> LibreOffice 6.4.7 Portable MultilingualAll](#)

Libre Office Calc



Задание

- Libre Office Portable
 - Скачать Libre Office
 - Запустить Calc

Anaconda



The screenshot shows the Anaconda website with the URL <https://www.anaconda.com/products/individual> in the browser address bar. The navigation bar includes the Anaconda logo, a "Products" dropdown menu (which is open), "Pricing", "Solutions", "Resources", and "Blog". The "Products" dropdown menu lists five options: "Individual Edition" (Open Source Distribution), "Commercial Edition" (Commercial Package Manager), "Team Edition" (Package Repository), "Enterprise Edition" (Full Data Science Platform), and "Professional Services" (Data Experts Work Together). On the left side of the page, there is a large green Anaconda logo and the text "Individual Edition" and "Your data toolkit". Below this, it says "With over 20 million users, the Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for".

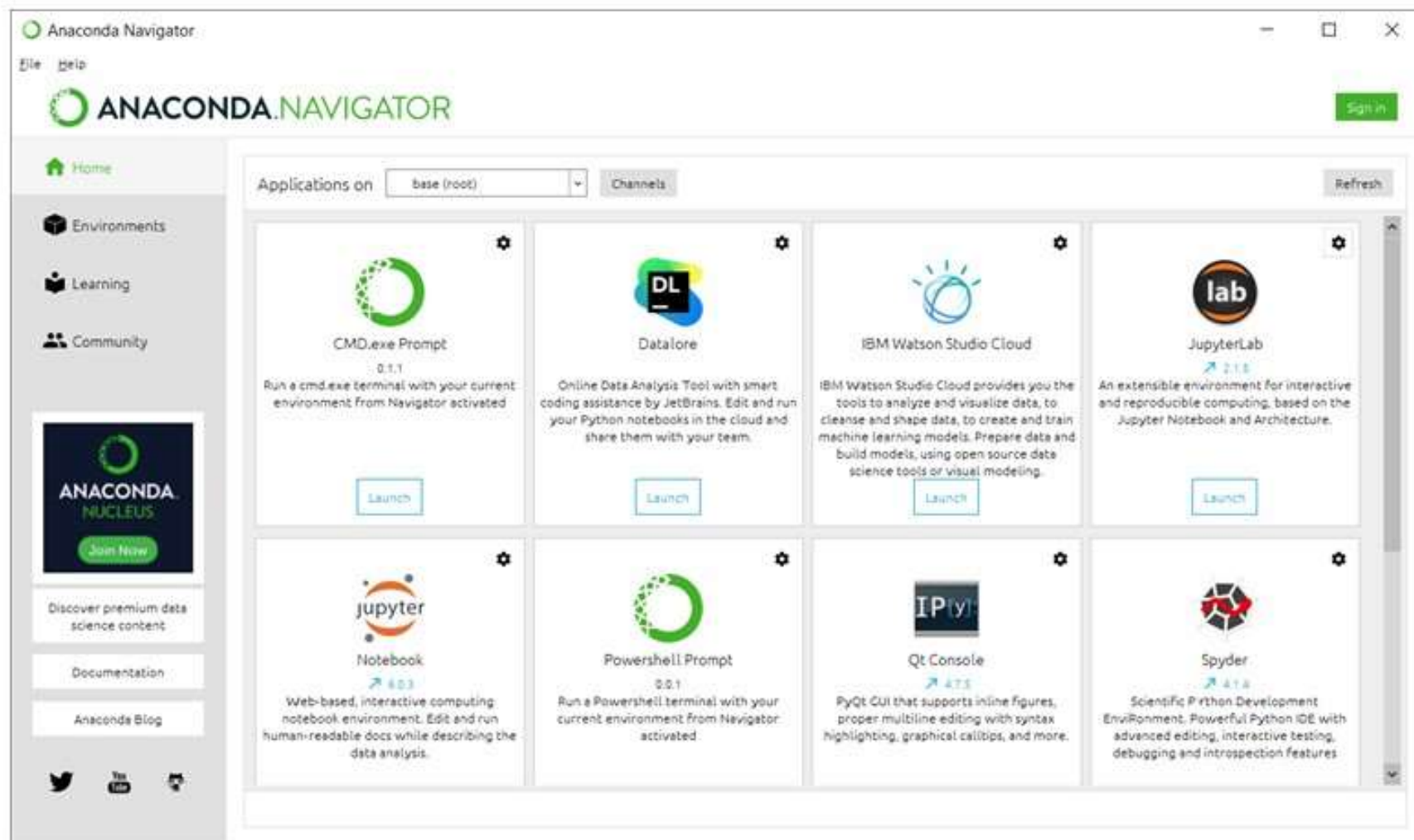
Products ▾ Pricing Solutions ▾ Resources ▾ Blog

-  **Individual Edition**
Open Source Distribution
-  **Commercial Edition**
Commercial Package Manager
-  **Team Edition**
Package Repository
-  **Enterprise Edition**
Full Data Science Platform
-  **Professional Services**
Data Experts Work Together

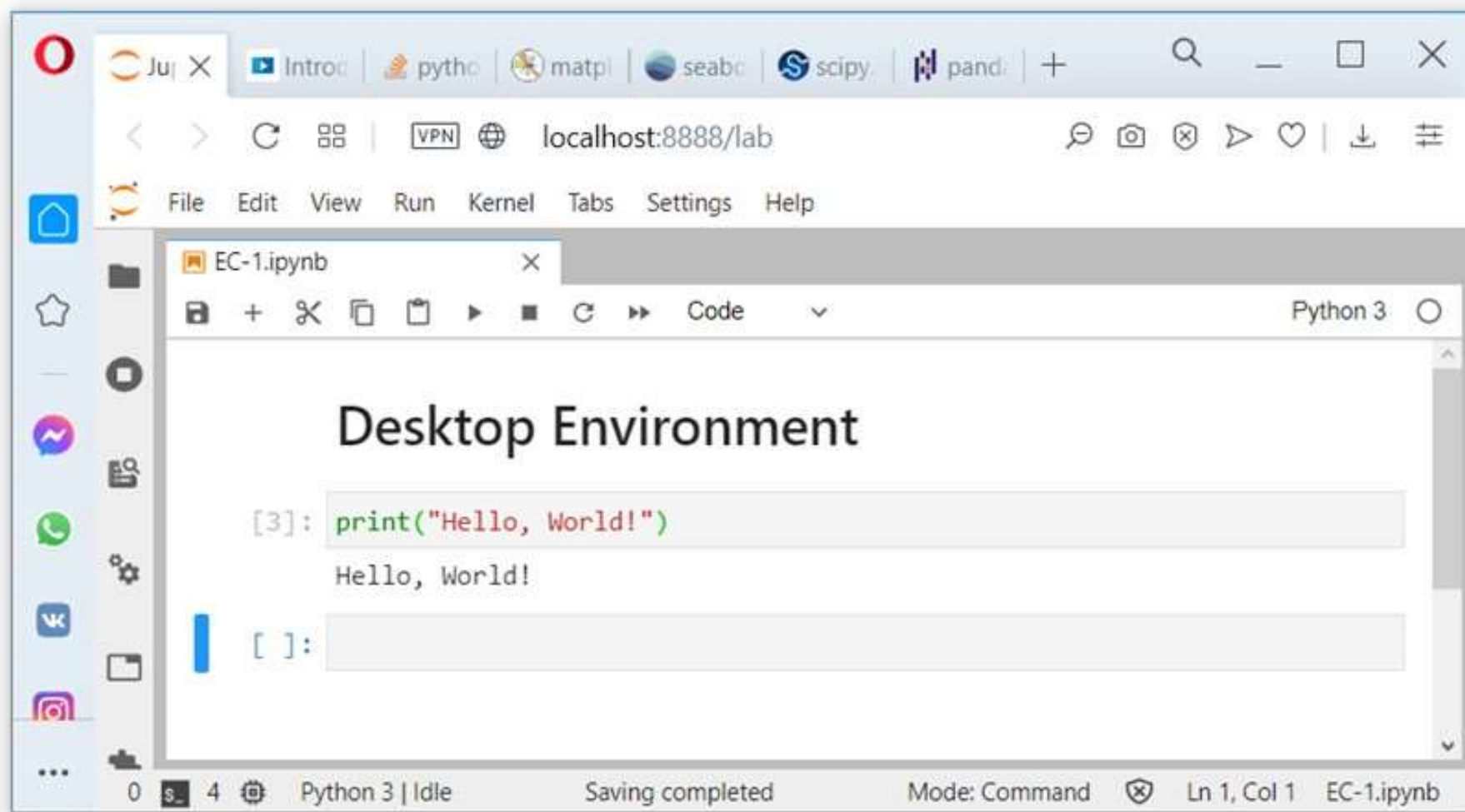
Individual Edition
Your data toolkit

With over 20 million users, the Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for

Anaconda Navigator



Jupyter Lab



Задание

- Википедия
 - Python
 - Project Jupyter (EN) + Colaboratory
 - Anaconda (дистрибутив Python)
- Anaconda Navigator
 - Скачать, установить, запустить
 - Запустить Jupyter Lab
- Создать новый блокнот
- Запустить программу “Hello, World”

Демонстрация

- Jupyter Lab

Google Colaboratory

The screenshot displays the Google Colaboratory web interface. At the top, the browser address bar shows the URL `https://colab.research.google.com/`. Below the browser, the Colab logo and the notebook name "EC-1.ipynb" are visible, along with a star icon for bookmarks. A menu bar includes "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". On the right side of the header, there are buttons for "Comment", "Share", a settings gear, and a user profile picture.

The main workspace is divided into two sections. The top section is a toolbar with "+ Code" and "+ Text" buttons, a RAM/Disk usage indicator (showing a green checkmark and a progress bar), and an "Editing" mode selector. Below this is a search bar and a list of files. The selected file, "Colab Cloud Environment", is expanded, showing a code cell with the following content:

```
[3] print("Hello, World!")  
  
Hello, World!  
  
[ ]
```

The code cell is currently in "Editing" mode, as indicated by the pencil icon in the toolbar. The output of the code cell is "Hello, World!".

Задание

- Учётная запись Google
- Открыть Колаб
 - <https://colab.research.google.com/>
- Создать новый блокнот
- Запустить программу “Hello, World”

Демонстрация

- Google Colaboratory