

Linux Primer

An Intro 100

AL NAFI,
A company with a focus on education,
wellbeing and renewable energy.



Hadith # 21 The example of a scholar

Jundub reported, the Prophet (Peace be Upon Him said):

“The example of the scholar who teaches people the good, but forgets himself, is the example of the lantern which gives light to people while it burns itself out.”

(at-Tabarani: ad-Diya' al-Maqdisi)


How Nafi Members Study!

1. Please subscribe to our YouTube channel
<https://www.youtube.com/channel/UC2yAW4Oq27r1yuRE8ePKRvA>
2. Follow us on Facebook <https://www.facebook.com/info.alnafi/>
3. Follow us on Twitter <https://twitter.com/nafiPakistan>
4. All Nafi members MUST study on the portal <https://alnafi.com/login/> and connect using your Nafi member username and password
5. Once on the portal they can follow their classes by:
 - watching videos
 - asking questions
 - attempting quizzes and flash cards
 - studying official Nafi notes
 - keep track of their studies long with many more features

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Al-Nafi company with a focus on education, wellbeing and renewable energy in Pakistan.

POPULAR COURSES




- Cyber Security
- IOT
- Data Science
- Cloud Computing

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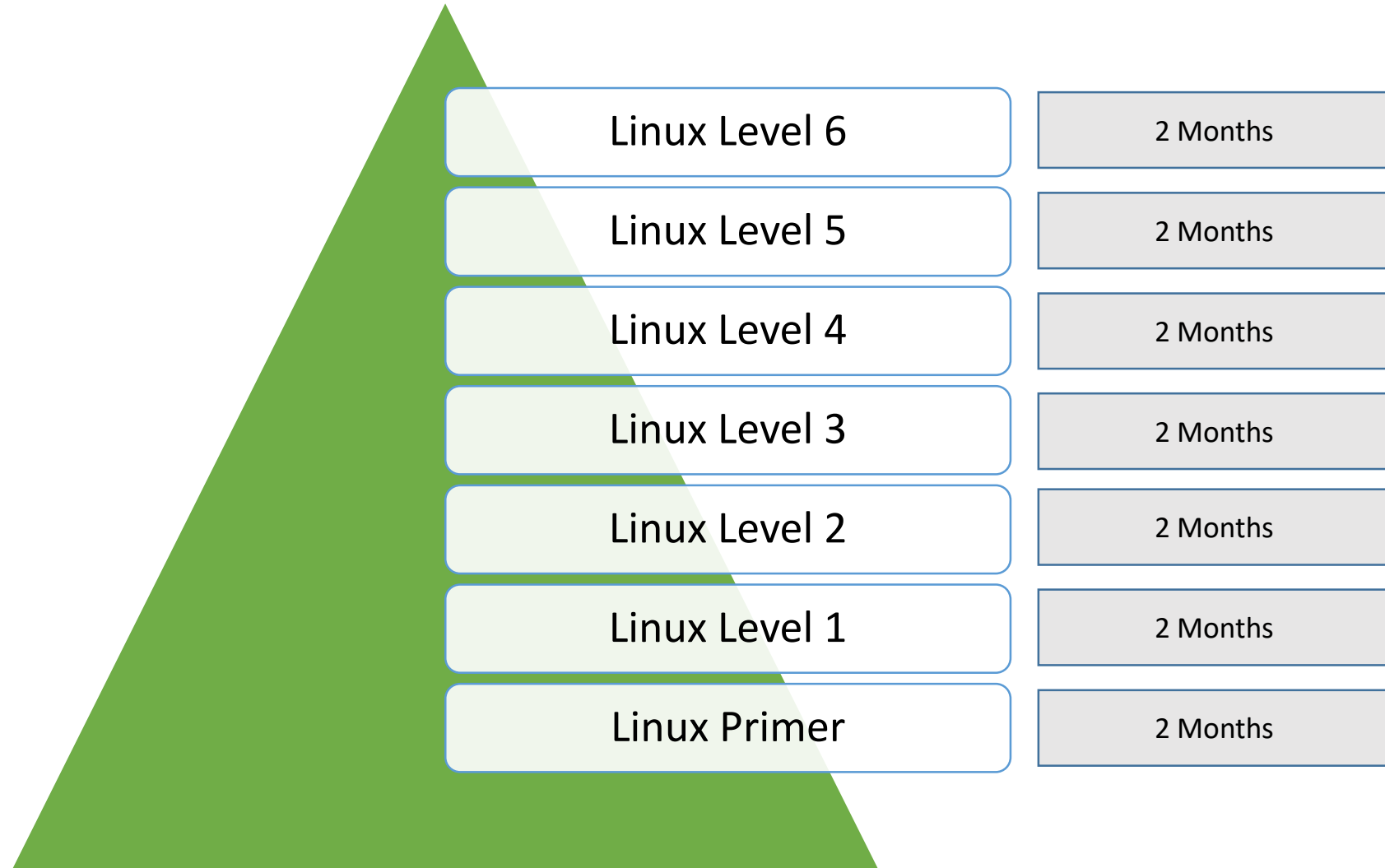
GET IN TOUCH WITH US

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- +1 647-680-1508 (Canada Number)
- +92345-2494147 (Pakistan Number)

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Why 7 Levels of Linux?



So how to take Linux through Al Nafi

Each level will be of around 2 months.

10-20 minutes of video a day. Videos released 4-5 days a week.

Anyone from grade 6 and up can/should take the course.

Practice on a daily basis and keep your main OS as Linux Distro.



Be ready for the future jobs inshAllah.

Why Linux

- Its Secure
- Can revive older computers
- Perfect for Programmers
- Faster Updates
- Customization
- Variety of Distributions
- Free to Use
- Its Open Source means its free
- Better Community Support
- Reliability
- Privacy



How does Linux differ from other operating systems?

	Comparison	
• <u>Linux</u>		<u>Windows</u>
• Open Source		Closed Source
• Free		Cost 150\$-320\$
• Free Software		Cost Software
• Live CD Distribution		NO
• Secure		Insecure
• NO		Virus, Malware
• Low Hardware Cost		High Hardware Cost
• Customizable add features		Not Customizable

What is the difference between Unix and Linux?

Difference between Unix and Linux

Unix

1. It is an operating system which *can be only used by its copyrighters*.
2. It was developed mainly for servers, workstations and mainframes.
3. Unix copyright vendors decide different costs for their respective Unix Operating systems.

Linux

1. It is an open-source operating system which is *freely available to everyone*.
2. Nowadays, Linux is in great demand. Anyone can use Linux whether a home user, developer or a student.
3. Linux is freely distributed, downloaded, and distributed through magazines also. And priced distros of Linux are also cheaper than Windows.

Who uses Linux?



Who uses Linux? continued

Who Uses Linux Computers?

facebook amazon.com

Google Microsoft


For many years, NASA, Google, Amazon and Facebook have used predominately Linux computers due to their speed & security. In 2017, Microsoft secretly switched nearly all of their cloud computers to Linux! It is therefore only a matter of time until everyone in the world is using Linux.

Who “owns” Linux?

- Linus Benedict Torvalds




How was Linux created?

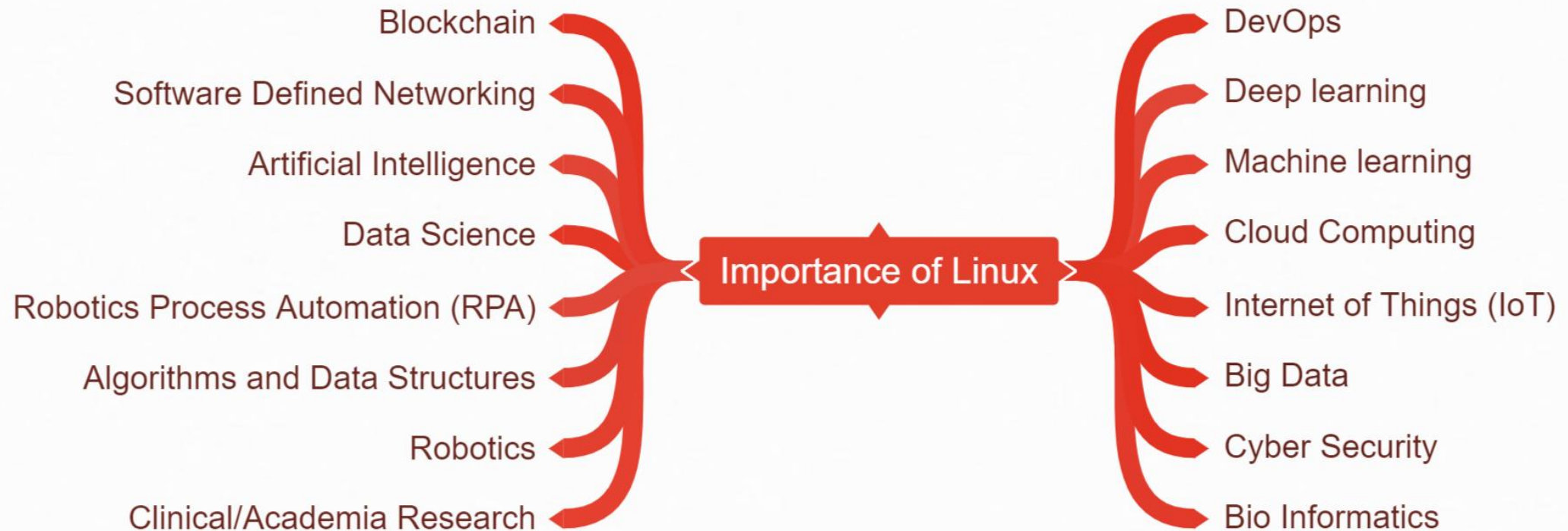


Who created Linux ?

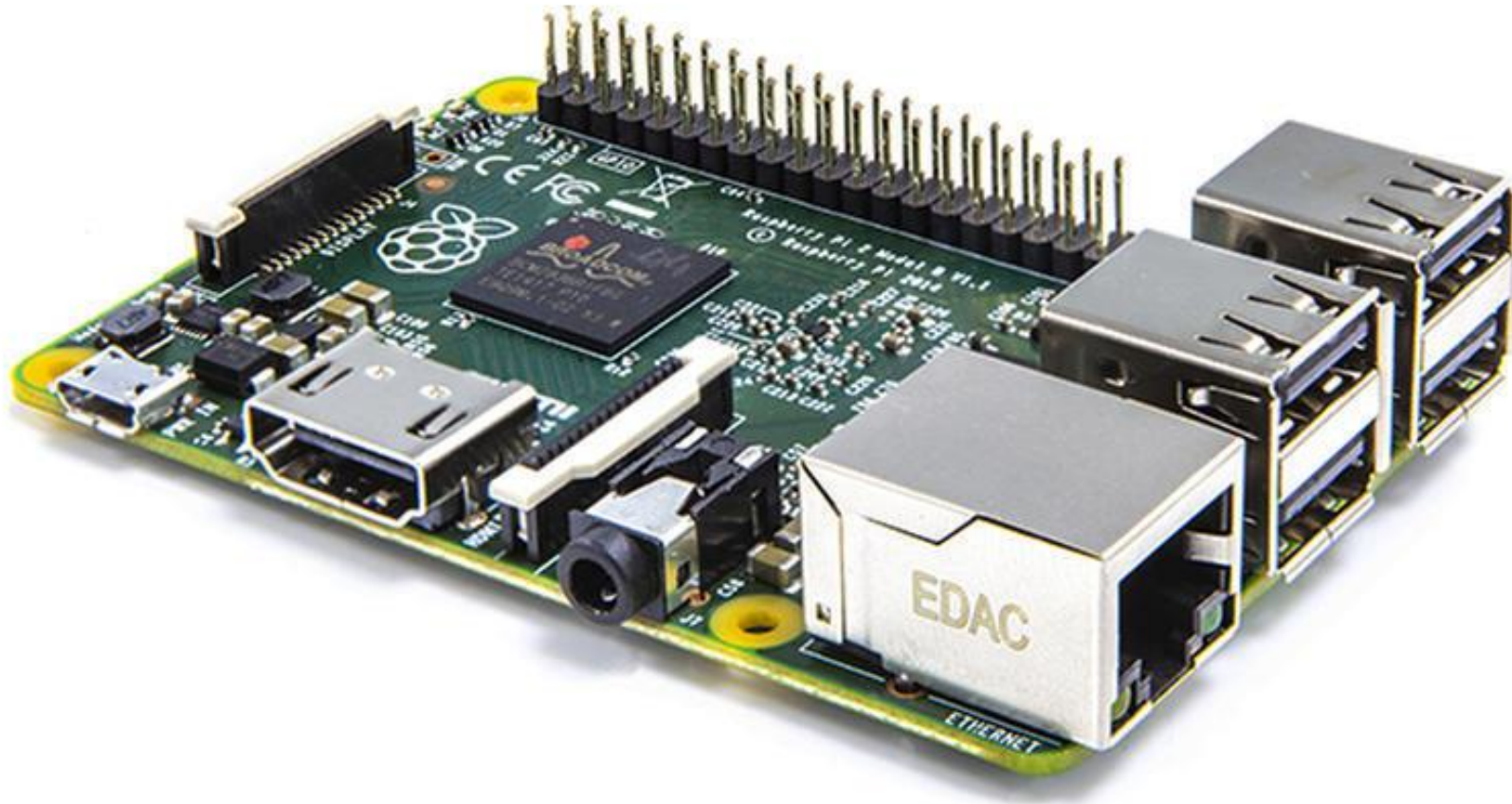
- The Linux kernel was initially written by **Linus Torvalds** a student at the University of Helsinki, Finland.
- Based on **Minix**, a simplified kernel used for teaching OS design.
- Linux was originally written in Intel 386 assembly and C, booted from floppy to run outside OS
- First version released to the Internet in September 1991.



Importance of Linux

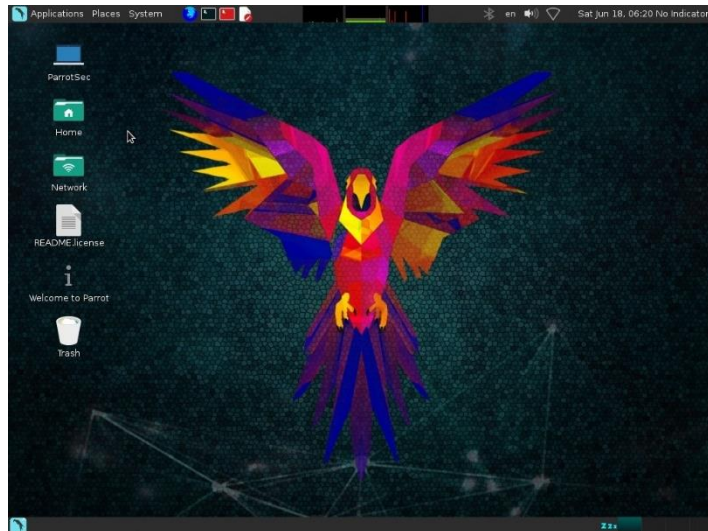
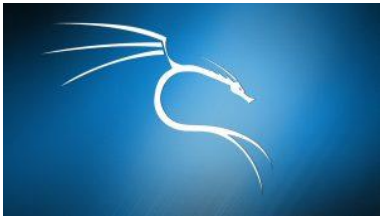


Linux Importance IoT (internet of things)

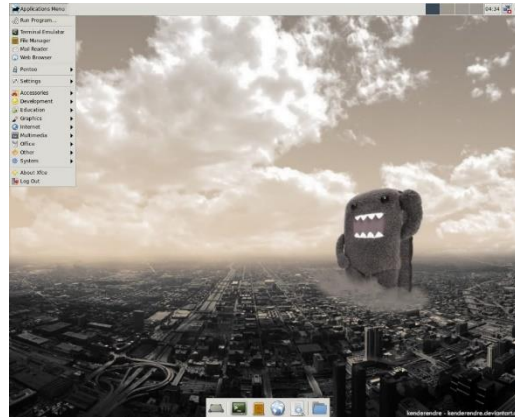


Linux Hacking Distros

- <https://itsfoss.com/linux-hacking-penetration-testing/>



Linux Hacking continued!!



Linux and Autonomous Driving



Internet of Things (IoT)

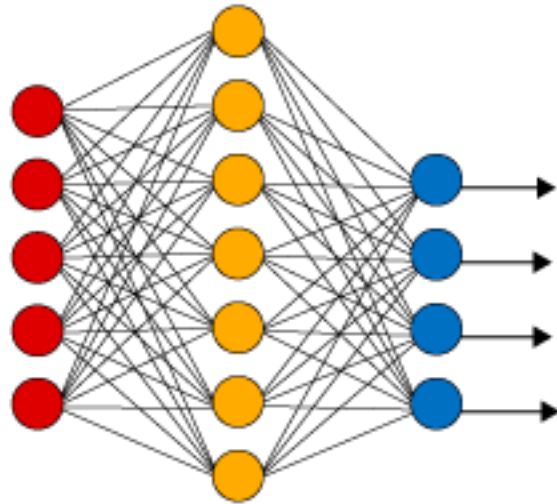


Machine Learning

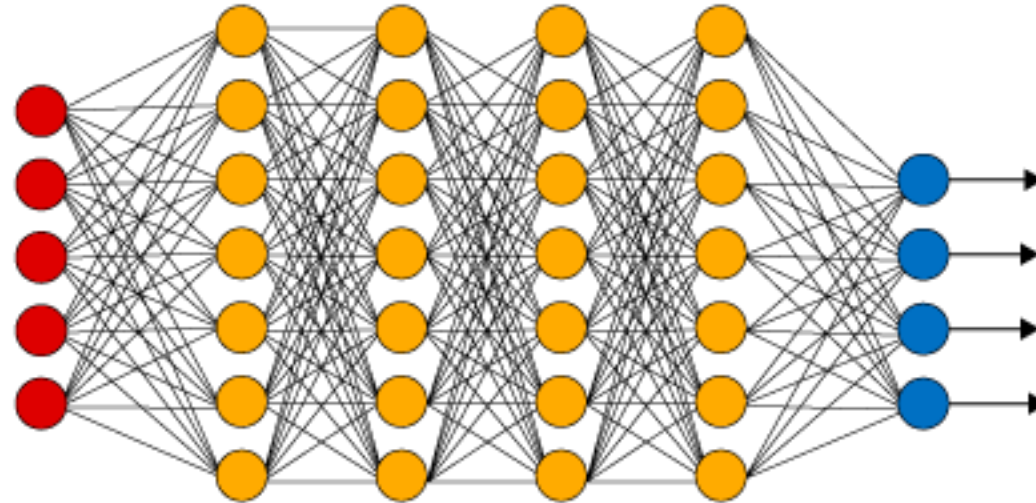


Deep learning

Simple Neural Network



Deep Learning Neural Network

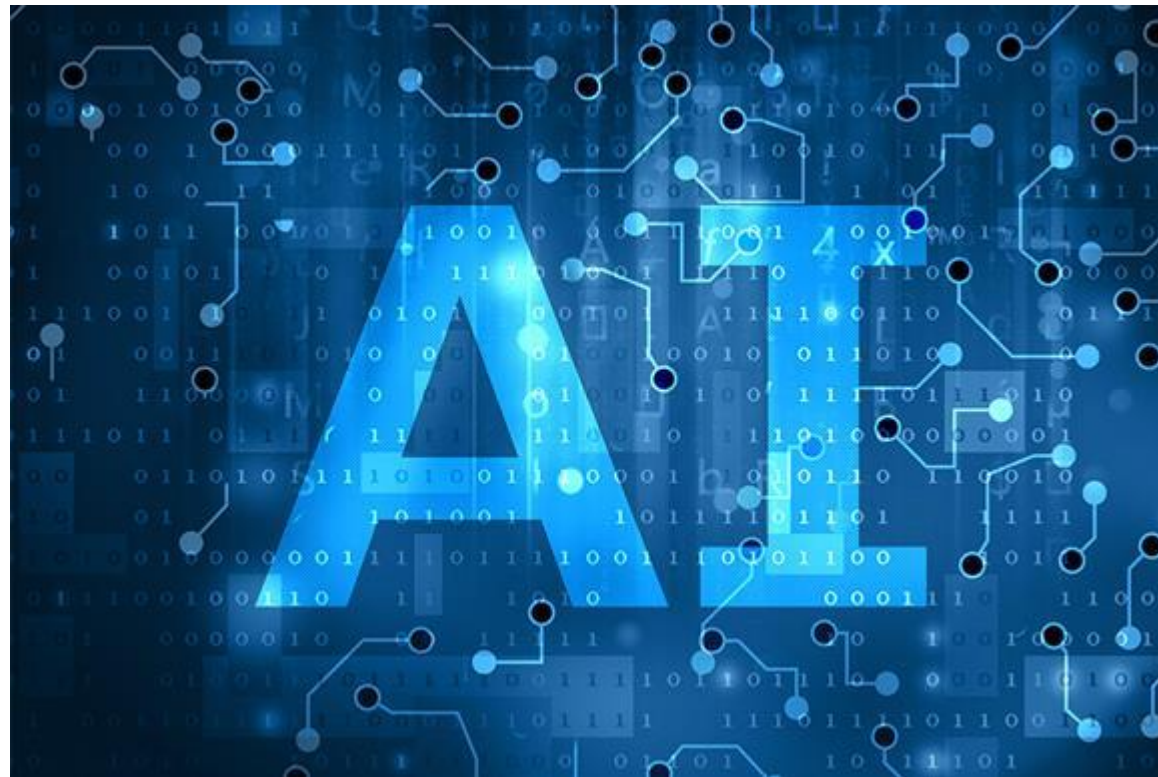


● Input Layer

● Hidden Layer

● Output Layer

AI and Linux



Cloud Computing and Linux



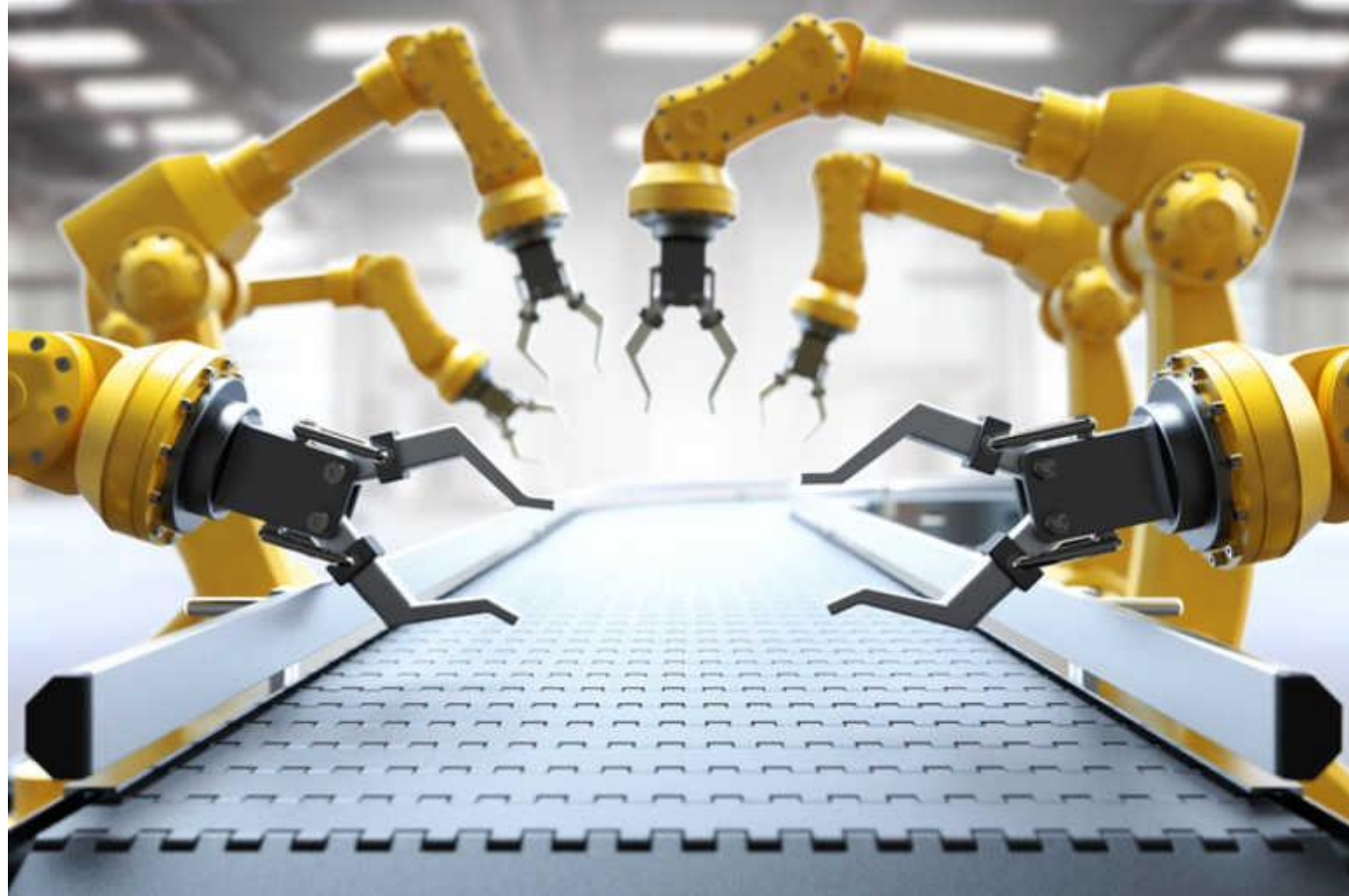
Satellite and Linux



Next Gen Rockets



Robotics Process Automation



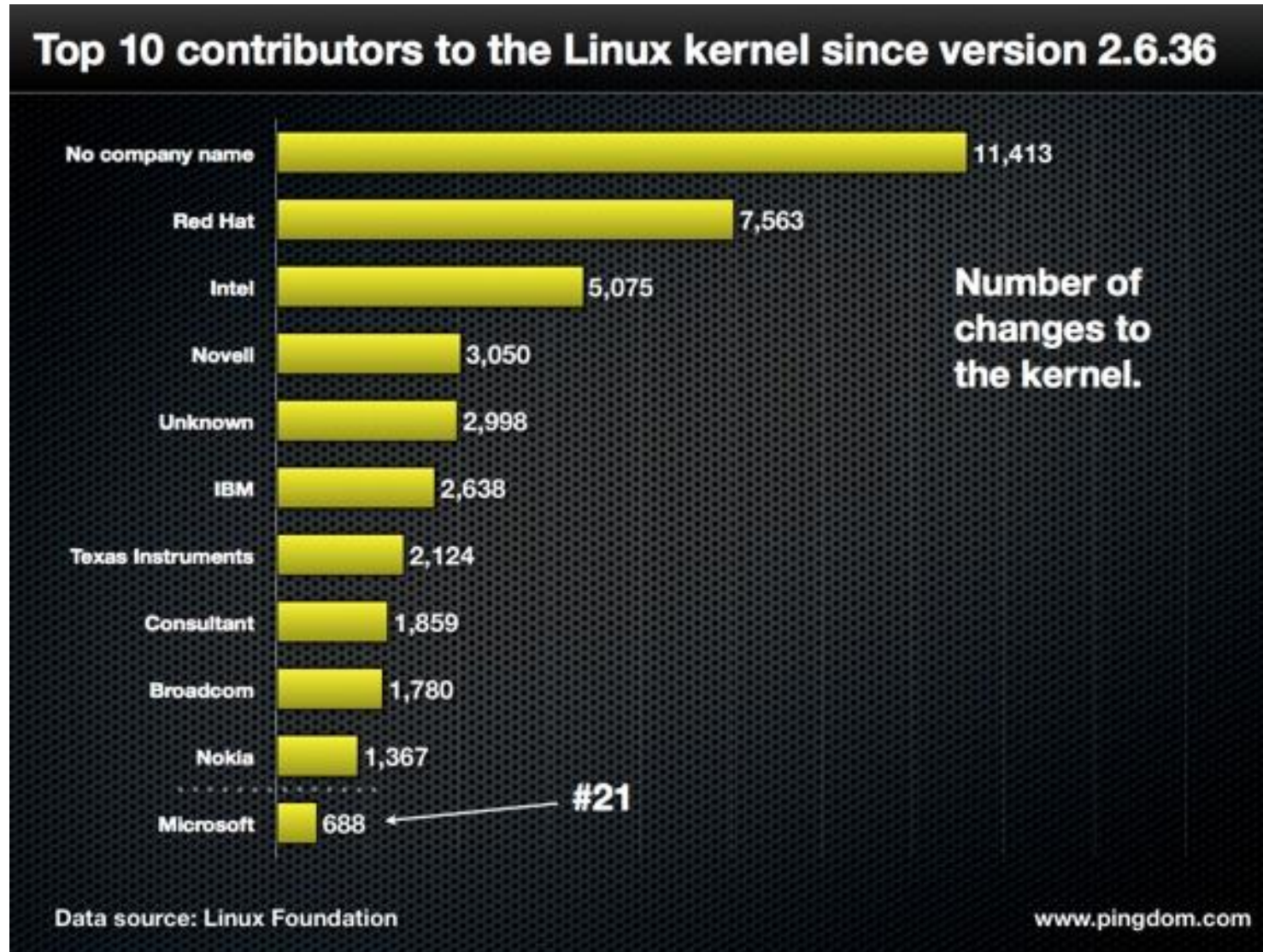
Robots and Linux



Drones



How can I contribute to Linux?



Nafi Linux

- Once we have a big community of Linux users in Pakistan, then Al Nafi would like to maintain their own Linux Distro inshAllah. Where our members would act as the key contributors to manage a Nafi Linux version for managing all the key projects within Pakistan.

جزاك الله

To ask questions, please logon to the portal <https://alnafi.com/login/> and use your username and password.