



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY  
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**BYTES**  
NOT JUST ONES  
AND ZEROS

# BYTES

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## MISSION

To provide quality education in both theoretical and applied foundations of Computer Science and train students to effectively apply this education to solve real world problems.

To amplify their potential for lifelong high-quality careers and give them a competitive advantage in the challenging global work environment

## VISION

To be recognised globally for delivering high quality education in the ever changing field of Computer Science and Engineering, both of value & relevance to the communities we serve.

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# Contents

**01** Eminent Personality

Tech Bytes

**02**

**03** Tech News

Events

**04**

**05** Upcoming Events

Achievements

**06**

**07** Faculty Corner

Student's Corner

**08**

**09** Are You Missing  
What's New ?

Internships

**10**

**11** Placement

Fun Section

**12**

# EMINENT PERSONALITY



**"The answers to your questions lie within-you just have to be courageous enough to do, what it takes to live your dreams"**

## Peyush Bansal



Peyush Bansal is the founder and CEO of Lenskart. He is also a judge of the famous Indian Shark Tank. Peyush Bansal was born on April 26, 1985, in New Delhi, India. Peyush Bansal is 37 years old in 2022. Peyush Bansal is very popular online to judge shark Tank in India.

Originally from Delhi – A true megacity, Delhi is where Bansal was born. Thus, it is not surprising that it is unique in various

ways. Delhi is indeed a union territory, but it shares many similarities with one of India's states, as evidenced by its own legislative and judicial bodies. Furthermore, its urban area is not restricted to its borders but encompasses many of its surrounding cities, which have been pulled into its orbit by the sheer weight of its immense power.

Graduated from McGill University – The first school Bansal attended was an Indian school. He attended McGill University in Montreal, located in the province of Quebec in Canada. Quebec is known as a Francophone province to those unfamiliar with it. A very high proportion of Montrealers are fluent in English and French, making Montreal an unusual city. Students at McGill University are allowed to write in French for most courses, but English is the primary language of instruction.

Educated in electrical engineering – Electricity, electronics, and electromagnetism are all topics studied during his time as an electrical engineering student at school. Therefore, it has been further sub-divided into various areas based on practicality, such as electrical engineering and computer engineering. Electrical engineering is older than most people believe because it was born during the 19th century when telephones, electric telegraphs, and electric power were becoming more common.



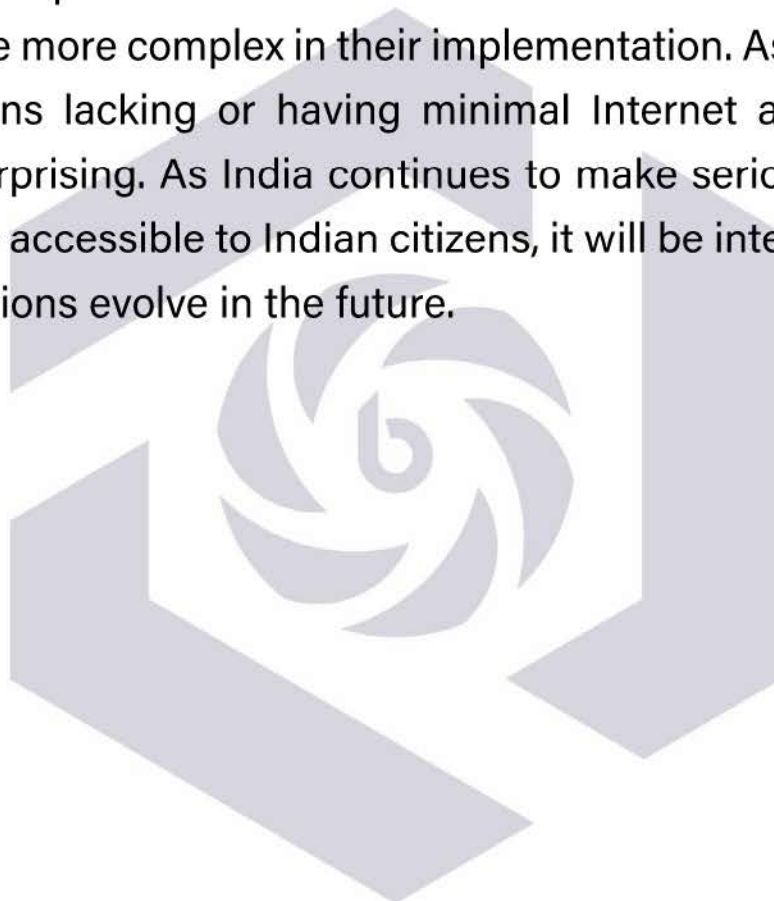
Bangalore's Indian Institute of Management is where Bansal also studied entrepreneurship. It would seem that he made a very rational decision here. Managing a business involves various skills, which is why it is difficult. However, even a tiny mistake can have detrimental consequences for a start-up's prospects in the

long run, making it even more challenging to run a start-up as an entrepreneur.

Worked at Microsoft for a while – Bansal worked for Microsoft as a program manager. He left his position to become an entrepreneur proves that this wasn't enough for him. Bansal is one of the success stories based on his current work. His first start-up was not Lenskart. He has founded several start-ups before Lenskart. The company isn't the first he has established in the eyewear sector. In 2008, Bansal founded Valyoo Technologies specializing in selling

eyewear online in the United States, which Bansal founded. Bansal's experience as an entrepreneur probably contributed to Lenskart's current success, as he put that knowledge to use.

Has a hybrid business model – As a click-and-mortar business, Bansal has a hybrid model. Essentially, this means that they have both online and offline operations. These operations enable businesses to reach a broader market. However, they are more complex in their implementation. As there are still vast swathes of Indians lacking or having minimal Internet access, this choice should not be surprising. As India continues to make serious efforts to make the Internet more accessible to Indian citizens, it will be interesting to see how Lenskart's operations evolve in the future.





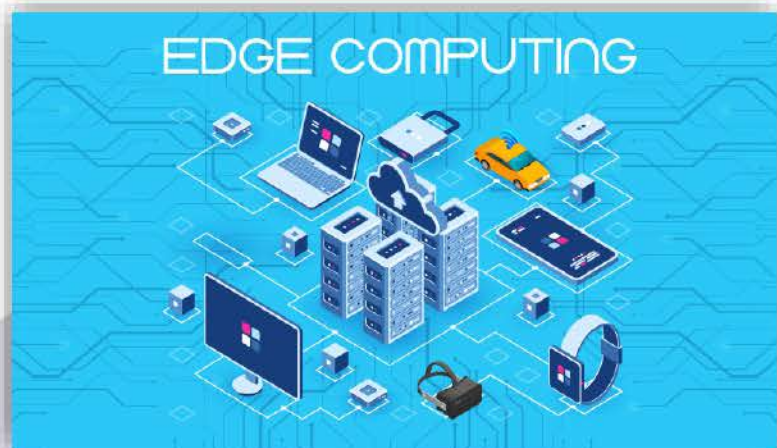
# TECH BYTES



**"The best way to predict the future... is to invent it"**

## Edge Computing

Edge computing is a distributed information technology (IT) architecture in which client data is processed at the periphery of the network, as close to the originating source as possible.



In simplest terms, edge computing moves some portion of storage and compute resources out of the central data center and closer to the source of the data itself. Rather than transmitting raw data to a central data center for processing and analysis, that work is instead performed where the data is actually generated -- whether that's a retail store, a factory floor, a sprawling utility or across a smart city. Only the result of that computing work at the edge, such as real-time business insights, equipment maintenance predictions or other actionable answers, is sent back to the main data center for review and other human interactions.

## How does edge computing work?

Edge computing puts storage and servers where the data is, often requiring little more than a partial rack of gear to operate on the remote LAN to collect and process the data locally. In many cases, the computing gear is deployed in shielded or hardened enclosures to protect the gear from extremes of temperature, moisture and other environmental conditions. Processing often involves normalizing and analyzing the data stream to look for business intelligence, and only the results of the analysis are sent back to the principal data center.

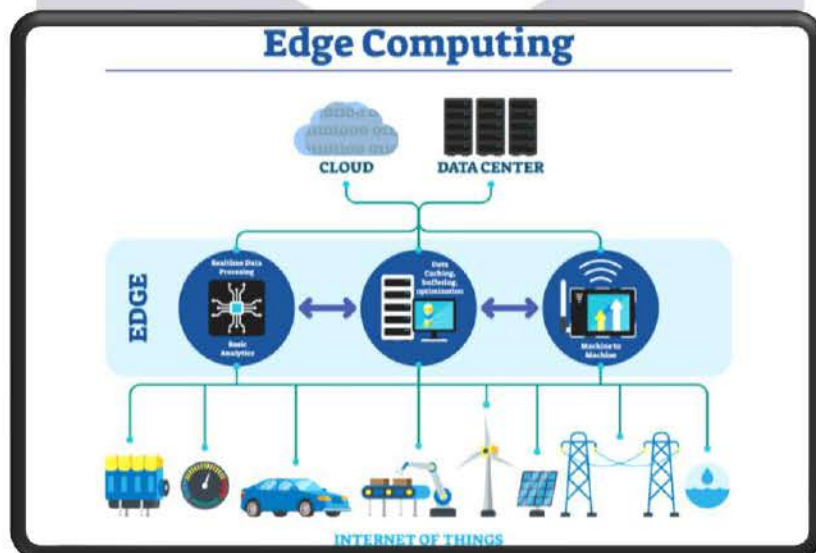
## Edge computing use cases and examples:

**Improved healthcare:** The enormous patient data volume requires edge computing to apply automation and machine learning to access the data, ignore "normal" data and identify problem data so that clinicians can take immediate action to help patients avoid health incidents in real time.

**Farming:** Consider a business that grows crops indoors without sunlight, soil or pesticides. The

process reduces grow times by more than 60%. Using sensors enables the business to track water use, nutrient density and determine optimal harvest. Data is collected and analyzed to find the effects of environmental factors and continually improve the crop growing algorithms and ensure that crops are harvested in peak condition.

**Network optimization:** Edge computing can help optimize network performance by measuring performance for users across the internet and then employing analytics to determine the most reliable, low-latency network path for each user's traffic. In effect, edge computing is used to "steer" traffic across the network for optimal time-sensitive traffic performance.



# TECH NEWS



**“Our Future success is directly proportional to our ability to understand, adopt and integrate new technology into our work”**

## Google Meet gets live translated captions feature

Google Meet is getting a live translated captions feature after a few months of testing. The feature works on mobile and web clients of Google Meet, but is still a bit limited, meaning it will only translate four languages into English: French, German, Portuguese and Spanish.



## Amazon's 'Play on Luna' button on Twitch is more potential than practical

Amazon is tying two of its big gaming efforts, the Twitch streaming platform and its Luna cloud gaming service, a bit closer together. If you're looking at a game's page on Twitch and that game is available on Luna, you might now see a "Play on Luna" button that takes you to the title on the cloud gaming service.



## Siri gets a new voice in iOS 15.4 beta



Apple's user-facing interface simply calls it "Voice 5," but iOS developer Steve Moser reports that its filename refers to the new voice as "Quinn."

## Facebook rebrands News Feed after more than 15 years



Meta is changing the name of Facebook's News Feed, the primary part of the service that users scroll through to see what their friends and family have shared. Going forward, it'll just be called the "Feed".

## Windows 11 Pro will soon require a Microsoft Account



The changes will mirror the same requirements Microsoft originally added to Windows 11 Home last year, meaning you won't be able to avoid Microsoft Accounts by creating a local user account during setup.

# EVENTS



**"All events are just like show that has an end.  
Nothing remains forever,except the memories,  
bitter or sweet, or both"**



# UPCOMING EVENTS



**"Participation gives you experience to upgrade your qualities, qualities makes you perfect to enhance your stardom"**

## Ad-tech



Ad-tech New Delhi is all about what's trending in the digital ecosystem. An unparalleled marketplace where marketing technologies and media communities come together to share trends, insights, disruptive technologies that's shaping the digital economy.

Ad-tech brings up the brightest and the most influential brands, agencies, publishers and technology services to the table. The event aims to create an environment for synergy between marketing, technology and media, and is slated to leave meaningful collaborations in its wake, by influencing 4000+ decision makers at a go.

Date: 26-27 April 2022

Venue: The Leela Ambience, Gurugram Hotel

Link: <https://10times.com/ad-tech-new-delhi>

## ng-India 22



ng-India is the largest gathering of Angular community in India. With around 400 people expected at the 2022 edition, you will meet the creators of Angular, RxJS Core team members, GDE, MVP, Authors coming from the various countries of the world to teach you Angular. Join to learn, network, recruit and befriend like-minded people.

Date: 21 May 2021

Venue: The Leela Ambience Convention Hotel, Delhi

Link: <https://www.ng-ind.com/>

# INTERNATIONAL CONFERENCE ON CYBER LAW, CYBER CRIME AND CYBER SECURITY



The International Conference on Cyberlaw, Cybercrime & Cybersecurity aim is to examine and analyse the emerging Cyberlaw, Cybercrime and Cybersecurity trends of today's times. The International Conference will be attended by various international delegates and speakers as also representatives from the national Diaspora representing the stakeholders in the digital ecosystem and alive web. These would include representatives from the Central Government & State Governments, various Ministries, Law Enforcement Agencies, Police, Business, Information Technology, Corporate Sector, Academics, Scholars, Service Providers, International Organizations and distinguished thought leaders.

Date: 29 April 2022

Timing: 9:00 AM - 7:30 PM (General)

Venue: Virtual event, New Delhi

Link: <https://10times.com/international-conference-on-cyber-law-cyber-crime>

# ACHIEVEMENTS



**"The level of our achievements is limited only by our imagination and no act of kindness, however small, is ever wasted."**

This certificate was awarded to **Ms. Deepali Kushwaha**, CSE, 3<sup>rd</sup> Year, for securing 1746<sup>th</sup> rank and scoring 180/180 in a coding competition "**CodeKaze**" organized by the Coding Ninjas on 8<sup>th</sup> April 2022.



This certificate was awarded to **Ms. Tanya Dwivedi**, CSE, 3<sup>rd</sup> Year, for successfully clearing the skill assessment for SQL (Basic) by "**HackerRank**".



# FACULTY CORNER



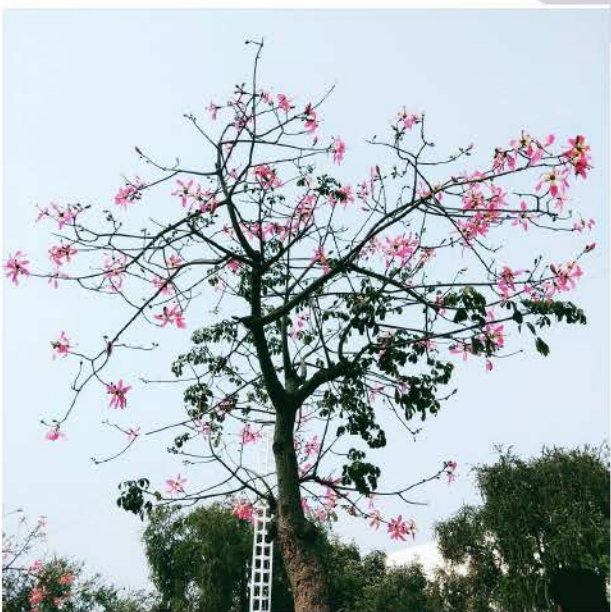
**"If you are planning for a year, sow rice;  
if you are planning for a decade, plant trees;  
if you are planning for a lifetime, educate people"**



Creativity of nature is supreme.



We all live in a yellow submarine.



"When you get tired, learn to rest, not quit."





Simplicity is a bliss.



Be yourself.



You either die a hero or live enough to see yourself to be a villain.

# STUDENT'S CORNER



**"You can't use up creativity.  
The more you use, the more you have"**



**"A Rose rose up to the sky just to experience the magic of sunlight"**

**Somya Agarwal (3-D)**



**"Little Bird if you do not sing for me, I will wait for you."**

**Tanya Dwivedi (3-D)**



**The prettiest eyes sparkle from inside and out.**

**Tanishka (2-D)**

# ARE U MISSING WHAT'S NEW



**"Technology unlocks a chance to connect everything together in a new way & is dramatically transforming how we live"**

## Nikola, the emotional android kid

Researchers from the RIKEN Guardian Robot Project in Japan have made an android child named Nikola. It is an android robot that conveys six basic emotions which include emotions like happiness, sadness, fear, anger, surprise, and disgust. All these emotions were generated by moving muscles in Nikola's face. Inside Nikola's face, there are 29 pneumatic actuators that control the movements of artificial muscles and another 6 actuators control head and eyeball movements. Nikola's skin is made up of silicone which is less elastic than real human skin and cannot form wrinkles very well so, some emotions like disgust were harder to identify on its face.

## Hiddenite

"Hiddenite" stands for Hidden Neural Network Inference Tensor Engine and is the first HNN inference chip. It is an accelerator chip that can achieve state-of-the-art accuracy in the calculation of sparse (hidden neural networks) with lower computational burdens. It has been developed by the researchers of the Tokyo Institute of Technology (Tokyo Tech).

Traditional DNN accelerators offer high performance, but they do not consider the power consumption caused by external memory access. Hiddenite can calculate hidden neural networks with drastically improved power consumption. It offers three-fold benefits to reduce external memory access and achieving high energy efficiency.

# INTERNSHIPS



**“Study what you love and intern in what you want to do”**

## Content Writing work from home job/internship at WriterOnRent



### Content Writing:

- Work from home
- START DATE
- Immediately
- DURATION
- 3 Months
- STIPEND
- 7500 /month

**Apply By: 18 May' 22**

### Skill(s) required:

- Creative Writing
- Learn SEO
- Learn MS-Excel
- Learn Business Communication

### Who can apply:

- Only those candidates can apply who:
- are available for the work from home job/internship
- can start the work from home job/internship between 6th Apr'22 and 11th May'22
- are available for duration of 3 months
- have relevant skills and interests



## Perks

- Certificate
- Flexible work hours
- 5 days a week
- Job offer

## Additional Information:

Note: Please do not apply if you have any ongoing classes or upcoming exams in the next 6 months.

- Working days: 6
- Daily Task: 2500 words per day

**Link:-** <https://internshala.com/internship/detail/content-writing-work-from-home-job-internship-at-writeronrent1649243947>

## Mobile App Development part time job/internship at Gurgaon in Skillzlearn



**Start Date:** Immediately

**Duration:** 2 Months

**Stipend:** Rs. 10000 /month

**Apply By:** 25 Apr' 22

### **Skill(s) required:**

- Learn Java
- Learn Voice App Development
- Learn Android
- Learn ReactJS
- Learn Kotlin

### **Who can apply:**

Only those candidates can apply who:

1. are available for the part time job/internship
2. can start the part time job/internship between 8th Apr'22 and 13th May'22
3. are available for duration of 2 months
4. have relevant skills and interests

\* Women wanting to start/restart their career can also apply.

## Perks:

- Certificate
- Letter of recommendation
- Flexible work hours
- Informal dress code
- 5 days a week
- Free snacks & beverages
- Job offer

**Link:-** <https://internshala.com/internship/detail/mobile-app-development-part-time-job-internship-at-gurgaon-in-skillzlearn1649405689>

# PLACEMENT



**"Choose a job you love,  
and you will never have to work a day in your life."**

# FUN SECTION



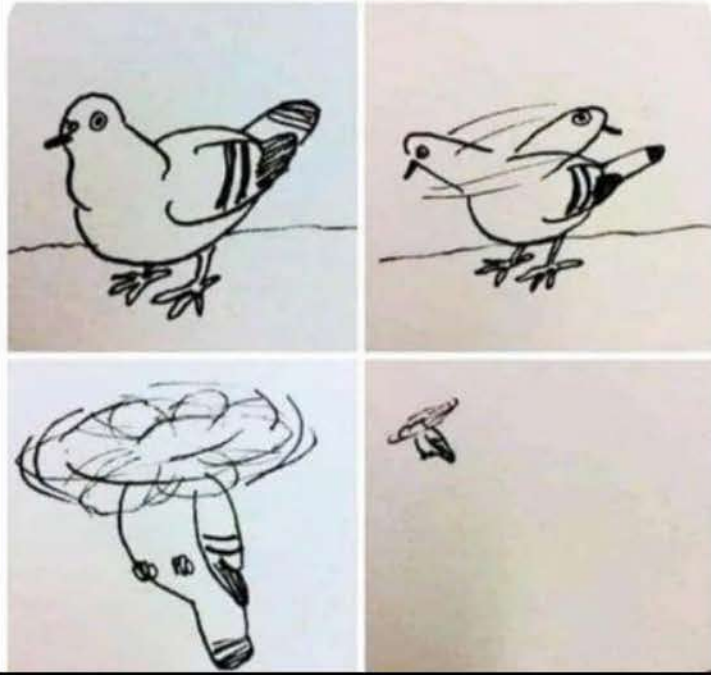
**"PLAY is our brain's favourite way of learning."**



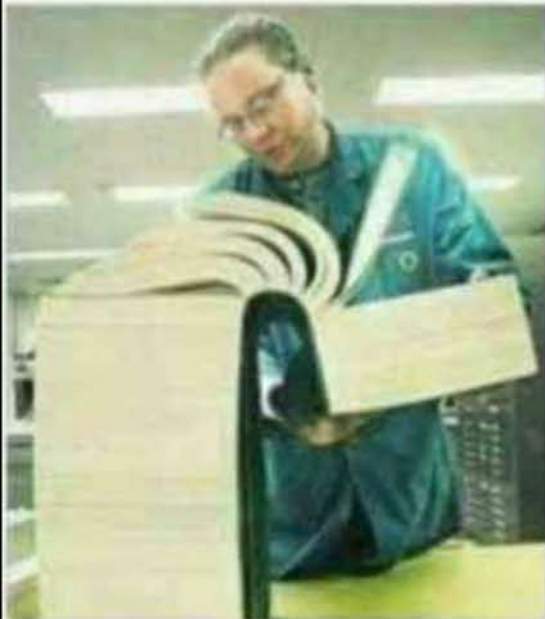
when you accidentally click  
restart instead of power off  
on your 8 year old laptop



When your program  
is a complete mess,  
but it does its job

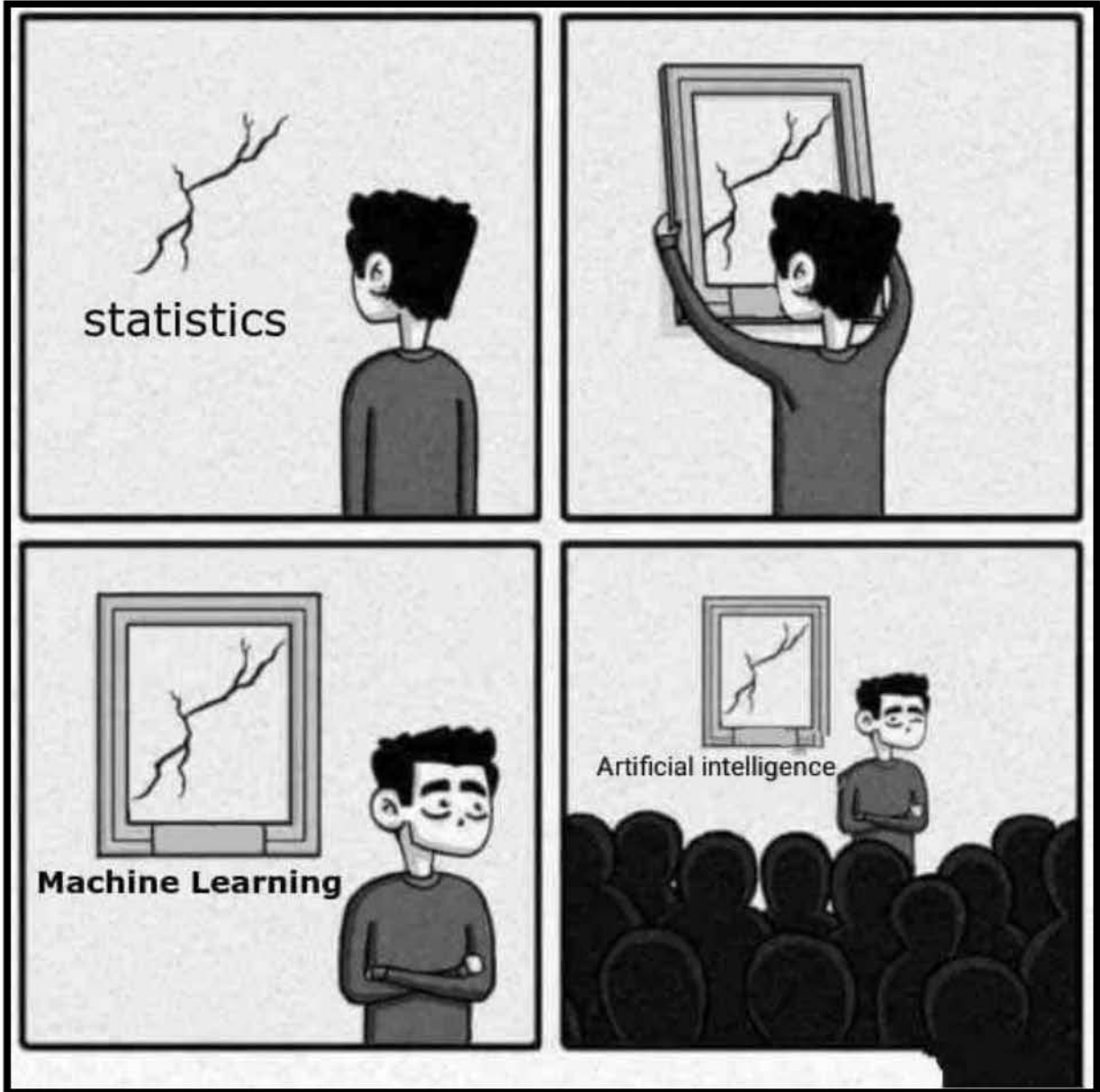


**my code solving a  
specific problem**



**code found on  
stackoverflow solving  
the same problem**











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