At the graduation UC Boulder.

saw it as a stepping stone to

becoming a manager. The best

brains in IIT would either leave

for the US or stay with India and

do an IIM and become an MBA

grad. This meant that all the

physics, science and engineering

that was learned in school, was

only supposed to be a stepping

stone for a career in MBA

finance, or private equity. In

those days, those were the kind of

hot careers to pursue, and IIT in

make it look good. I, on the other

hand, wanted to stay in engineer-

ing and not do an MBA. Also, in

ndia, there were very few compa-

nies doing original research

Back then, most of our research

domain was reverse engineering

So, it was just about looking at

technologies that have gone out of

their patented life or technologies

that are available and adapting

them. It's mostly innovation, not

invention, a lot of which did not

require higher-order skills. All it

required was to be able to inter-

pret and copy. With such a mind-

set, organizations and society

would value a manager's role

In the US, it's always been dif-

ferent. Here, good engineers were

agers because companies like

IBM and Seagate had totally dif-

good engineers and they would

them for any new inventions,

patents, etc. There was far more

recognition both, within the

organization, and outside the

organization for good engineers,

whereas that was not the case

with India. I think that's why all

Indian engineers aspire to be

something else but not do engi-

To be continued...

keep their best talent and reward

ferent promotion channels for

far more valuable than good man-

more than an engineer's role.

in India in the engineering

राष्ट्रदुत

Fighting 'Fake News' can cut Trust in Reliable Sources, too

The idea of the redesigned strategies was to foster a critical, yet not overly skeptical, engagement with information. For instance, rather than focusing on whether news is either true or false, one of the redesigned strategies emphasized understanding political biases in news reporting.





skepticism towards 'fake news,' but they also breed distrust in genuine, factbased news sources, new

Studies have shown that few people actually come across false information in their day-to-day lives. And yet, concerns about the harm of 'fake news' may have increased in recent years. High-profile events such as the Capitol Riots, vaccine-hesitancy during the COVID-19 pandemic, and the war in Ukraine have fueled these concerns.

At the same time, factchecking initiatives are on the rise. Major news platforms like BBC and CNN have incorporated fact-checking into their regular offerings, while media literacy campaigns have flourished, with programs designed to educate the public on how to make sense of what is true and false.

The new study now shows that these efforts have given rise to an unintended paradox. The very tools used to combat misinformation are fomenting distrust in all news, including from reliable

The researchers conducted three online survey experiments involving 6,127 participants in the US, Poland, and Hong Kong to test the effec tiveness of three corrective strategies currently used to combat misinformation, factchecking, media literacy initiatives, and dedicated news reporting, and compared them with three alternative strategies. The idea of the redesigned strategies was to

skeptical, engagement with rather than focusing on whether news is either true or false, one of the redesigned strategies emphasized understanding political biases in news reporting. The study reveals that the

traditional tools as well as the alternative strategies used to debunk myths, foster a broader sense of doubt among the public, even towards legitimate information. The redesigned strate gies did not significantly outperform traditional tactics in mproving the public's ability to distinguish fact from fiction, although, thev were slightly better at doing so.

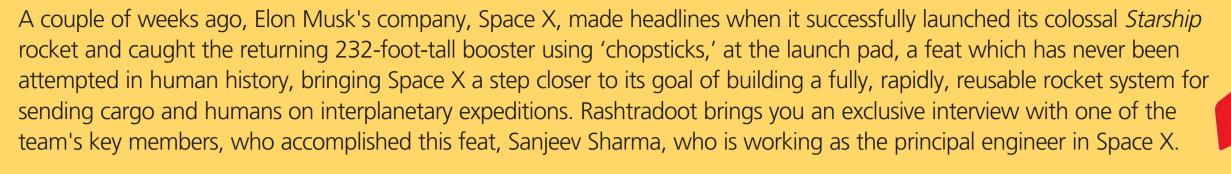
"Public discourse on fake news not only increases skepticism towards false information but also erodes trust in reliable news sources, which play a key role in functioning author, Emma Hoes.

According to Hoes, the potential gains from reducing misperceptions must be carefully weighed against the broader implications of heightened skepticism.

"This is particularly the case in many Western democracies where reliable factbased news is fortunately still much more common than misinformation," she says.

Hoes and her fellow researchers therefore call for a deeper overhaul of current approaches to misinforma tion and the need to develop nuanced strategies. "The path forward is to educate the public on discerning facts with a critical eve. but without leading them to dismiss otherwise reliable information and sources outright.'







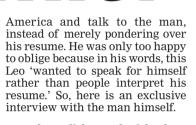


hat would you do if you got 100 million dollars? Perhaps, vou would buy a palace or take a grand trip around the world? Maybe. vou would just live life king-size for the rest of your days? But not Elon Musk.

When he sold off his stake in PayPal, a payment platform, he founded Space X, a spaceflight services company in 2002. Later, he also invested in Tesla, an electric vehicle manufacturing company, and acquired the social media platform. Twitter, and renamed it X. Today, Space X has become the world's dominant space launch provider, rivalling the Chinese space program launch Cadence. It helps NASA and United States Armed Forces in their Space Missions, too. In fact, its Crew Dragon spacecraft will also be bringing back Sunita Williams and Butch Wilmore, the stranded astronauts in the International Space Station since NASA's Starliner developed propulsion problems and was deemed too risky to be deployed for the return of the two astronauts. Two weeks ago, Space X's Starship launched and caught back its colossal rocket's booster using 'chopsticks,' as its giant mechanical arms are affectionate-

Since the launch of Starship, the internet has been obsessing about Sanjeev Sharma's resume on LinkedIn. There have been articles about how he is one of the 'keymen' in Elon Musk's team and how he has been instrumental in the recent success of Starship. People have been commenting on how this man made his way from Indian Railways to become the principal engineer at Space X. We, at Rashtradoot, decided to call



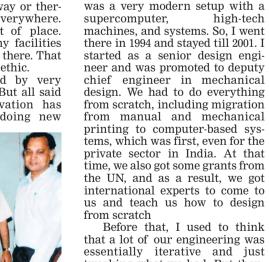


When did you decide that you wanted to be an

From very early on I knew that I wanted to be an engineer because my dad is also an engineer. He's a technical engineer and worked for the government for years. I loved mechanical stuff like taking things apart and looking at how they work. I ended up at the University of Roorkee (now IIT, Roorkee). Back then, it was not an IIT. But actually. I wanted to enroll in the Indian Railway Institute of Mechanical and Electrical Engineers because I was more interested in the mechanical engineering aspects of large structures and the institute was famous for the hands-on training they provided. However, admission to UPSC through the central selection committee is so long that it takes about eight months after the higher secondary. So, since I didn't want to wait, in case I didn't make it, I joined the University of Roorkee. Luckily, the results came in after eight months and I got selected.

After completing my course. became the assistant mechanical engineer in Dhanbad in Eastern Railway (as it was known at that time). Soon, I got promoted and became the divisional mechanical engineer. It was a very tough place to work in. It was all coal mines and the primary job was to check the freight in terms of railway wagons and trains and engines get combined into a train, and make sure that we dispatch these trains over to northern railway or thermal power plants everywhere. The area was so out of place. There were hardly any facilities but I enjoyed my work there That place shaped my work ethic.

I was surrounded by very hard-working people. But all said and done, my motivation has always been about doing new



Before that, I used to think that a lot of our engineering was essentially iterative and iust tweaking what we had. But then, when we worked with these international experts, who taught us first principles and how to go about it, I realized that I needed to earn more if I wanted to be better. By that time, I had already been in the workforce for about eight to nine years. By the end of

Sanjeev Sharma at Boeing Office.

things rather than working on the

existing things or maintaining

existing things or processes. So,

was there, only for two and a half

years, and then in 1994, I was

transferred to the newly estab-

lished rail coach factory in

Kapurthala, At that time, Punjab

was coming out of terrorism and

no one wanted to go there. But it

high-tech



Sanieev Sharma with his wife and

2001, I had applied for further studies. I wanted to get a master's degree in mechanical engineering and focus on areas where I think I lacked in terms of computer simulation analysis. Today, everything is available online, but back in the 2000s, you couldn't learn anything by yourself since there was no internet. So, one had to go back to school.

But why did you choose an American School?



Space X booster being caught by the giant metallic arms.

at the best school possible. Also, I

tried to apply to schools in Europe

that were focused on railroad engi-

neering or railway engineering,

but the tuition cost was too pro-

hibitive and they had no scholar-

ships. So, the US was the one place

where they did not have a strong

railway focus, but they had a

mechanical focus in related areas

like automotive and aerospace.

interested in product develop-

ment, research and design.

Mechanical engineering is my

first love. But my experience in

the Indian Railways taught me

that in India, the reason most peo-

ple do engineering is not to get into

the technical aspect of things but

just to use it as a stepping stone to

doing MBA in an IIM to become a

well-rounded general administra-

tion sort of an officer. Had I gone

back. I would have been responsi-

ble for human resources or pro-

curement or something like that

and would have lost this side of the

So, you wanted to remain

on the technical side of

Yes. it excited me to be an engineer

and bring new technology for the

benefit of society at large. For

example, my research and work on

hard drives. I realized that if we

produce hard drives that can store

data cheaply, it's easy to unlock

several uses for digital data which

is precisely what happened. All the

progress and information technol

ogy revolution would not have han

pened, had the hard drives not

updated their capability by 25 per

cent every six months for decades.

Just imagine, the first 512 MB hard

drive produced by IBM cost thou-

sands of dollars, and today, you

can get a hard drive of many ter-

campus and attend my classes. Coming back to the point where you said that people study engineering in India not because they want to do engineering but because they want to do MBA and get more money. Could you talk

regular job during the week, and

on the weekend. I would drive up to

Minneapolis downtown or the city

abytes for merely 20 dollars or

something. So, it's mind-boggling

and all of this has been done by

engineers like me and much better

than me. This is how we see things

improving in society. It's the result

of thousands and thousands of

engineers, scientists, and techni-

cians. It's exciting for me to be a

part of this revolution and that is

what I have always wanted to do.

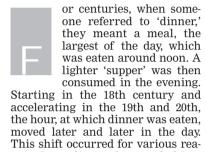
Well, I have been out of India for a good two decades, now. But when I was there, almost everyone, who was doing engineering,



Sanjeev Sharma mentoring water loop.

The Digestive Power of an After-Dinner Walk

"Eat breakfast like a king, lunch like a prince, and dinner like a pauper."

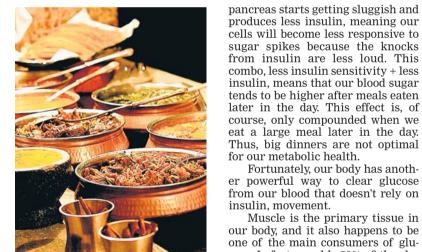


While these large evening meals may be convenient in our modern, industrialized societies, emerging research has shown that this schedule doesn't align very well with our

a bigger breakfast/ lunch and keep one's dinner small (or non-existent, according to Hendricks' research the ideal daily eating window is something like 8:00 A.M. to 2:00 P.M.), most people won't find this idea very appetizing for reasons both practical and psychological. There is something very satisfying about sitting down with loved ones for a big meal after the stress of the day is through.

willing to mix up the timing and 'weight' of vour meals, there is something you can do to blunt the negative effect of eating the bulk of





cose. In fact, roughly 80% of the glucose, that gets cleared from our blood, goes into the muscle. The noment the muscle starts moving after-dinner walk. Whenever we eat. contracting and relaxing, it opens glucose hits our blood, and insulin its glucose doors, even though insulin isn't there knocking on rises to shuttle it into our cells. In the morning hours, our cells are them. And so, if we just get up and

> By getting your muscles to soak up glucose in the absence of insulin. an after-dinner walk blunts blood sugar's rise and allows it to come down quicker

start moving, our muscles begin

greedily consuming all of that glu-

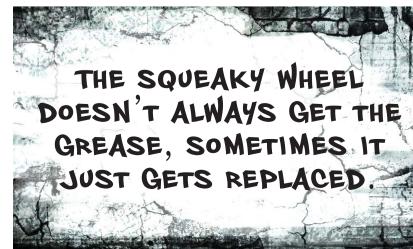
In a study done on people with diabetes, participants, who were asked to walk for 10 minutes after each main meal, improved their blood sugar curve more than those who were told to walk for 30 consec utive minutes at a random time, and this improvement was particularly striking after the evening meal.

Walking is also an aid to diges tion in other ways. Because the intestinal system slows down when you sleep, a big evening meal can sit heavy in your stomach, dis rupting your sleep. Research shows that a post-dinner walk stimulates the stomach and intestines, causing food to pass through them more quickly and giving your digestion a head start before you hit the hav. Walking after a meal can also diminish gas, heart-



burn, and bloating,

THE WALL



BABY BLUES





By Rick Kirkman & Jerry Scott

I CAN BARELY

REMEMBER

MY OWN NAME

ANYMORE, BUT

GO ON.









sons. Later dinners became fashionable, electric lights facilitated dining after dark.

innate human biology. Because the efficiency of our metabolism peaks in the morning and then declines throughout the day, people, who eat the bulk of their calories early on, improve their blood sugar and insulin sensitivity. They're also less hungry and burn more fat than people who eat their biggest meals later in the day, and this is true even when people are eating the same amount of calories overall and doing the same amount of physical activity. Meal timing alone can make a significant differ-

ence in overall metabolic health. It turns out that there's much wisdom in the old saying, "Eat breakfast like a king, lunch like a prince, and dinner like a pauper." While it may be beneficial to eat

If vou're understandably not

insulin metaphorically knocks on their doors, the cells are more receptive to opening up and letting glucose in. As the morning wears into evening, our cells become less insulin sensitive, meaning they start ignoring insulin's 'knocks, leaving glucose in our blood. What's more, as the day progresses, our

more insulin sensitive, so that when

ZITS