REGRESSION ANALYSIS OF ELECTRICITY USE IN THE SUBURBS

EDITORIAL

"Your success will be determined by your own confidence and fortitude"

Michelle Obama

Dear Readers,

To achieve our personal goals and make ourselves truly happy, We must cultivate and uphold our sense of self-worth. To do this we need to understand the difference between worldly self-confidence and authentic self-confidence, and be able to distinguish self-confidence from selfish intentions that prevent us from fulfilling our wish to be truly happy. By using tried and tested methods we can then build and strengthen our self-confidence so that it remains stable and long-lasting.

If we take an honest look at our own lives and the lives of those around us, we will see that most of the time and effort we put into achieving pleasure is spent on boosting external factors, such as accumulating more money and goods, building our reputation, etc. But even if we are successful in obtaining these external conditions, we can see from our own experience that we will never experience the enduring satisfaction that we all long for. We will constantly feel empty and let down if we try to build self-confidence based on our capacity to obtain better worldly conditions, or "worldly self-confidence." Because we can never be perfectly happy with or hold, worldly self-confidence will never be fully achieved or remain steady. There is, however, a type of self-confidence that is completely free from worldly aspirations. 'Authentic self-confidence' is based on our wish to achieve spiritual goals and can never lead to harm or dissatisfaction. Self-confidence based on spiritual aspirations makes our human life precious and meaningful because spiritual goals are the only conditions that actually lead to the lasting happiness we desire. Understanding this we can see that authentic self-confidence can be gained only by attaining spiritual realizations through inner development.

Best Wishes! *Arun Kumar*

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REGRESSION ANALYSIS
OF ELECTRICITY USE IN THE SUBURBS

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A REGRESSION EXAMPLE

Electricity Use in the Suburbs

Assume that you would like to know what factors affect the electricity usage in a suburban area. Your hypothesis is that such factors include rain and snowstorms (since people stay in their houses more); holidays (as people stay in their homes and cook more); and nights of music, movie, and TV award ceremonies (because people have watching parties at their homes and stay in).

Your first step is to determine the amount of electricity usage every day for the past ten years. This gives you the base, or the dependent variable, you are testing against. This data can be found on your electric company's website. You upload it into a spreadsheet with the dates attached. Next, you have to find the dates of each event that you are testing as an independent variable. You need to find the past ten years' dates of rain and snowstorms, possibly from Weather.com.

You'll also need to find the holiday schedule for the past ten years, and you'll need to find when various award shows were broadcast on TV for the past ten years. You upload all this data into a statistics program, with each factor in a column on the spreadsheet, and each date's information on the same row on the same sheet. I'll describe the next step as if you are going do the regression in Excel, but you'd take similar steps if you were using other statistical software such as R or Python. If you know the commands, it doesn't matter what software you are using: the results will be the same. Next, highlight all the information on the spreadsheets and then go to the Excel function called "regression."

Depending upon your version of Excel, you can look online for the exact place on the toolbar to find these commands (or if you need to, download an extra Excel tool pack, which is usually free). The regression tool on Excel will ask for the independent variables and the dependent variables. After entering this information, click the run button, and your computer will crunch the numbers. In this example, it will tell you the amount that each factor affects electricity use. You might notice that while the weather report information is reported in inches of rain or snow, it is done every day regardless of the weather. This is good and leads to accurate information.

On the other hand, the information about TV specials shows that there are specials once a month or so. This isn't enough information to get results. Neither is the holiday information. You'll have to go back and rethink your data gathering to reflect something that you can gather more data on. You might want to change the TV and the holiday schedule to one entry: days of the week. You can upload the days of the week to Excel and test for that. How would this be done? Remember, Excel does

regression tests for numerical and quantitative information. Sunday through Saturday is hardly quantitative, and one day's value isn't higher than the next. Because of this, what you could do is change your study even further and measure the electricity usage on weekends.

You set up Excel to list the days of the week for the past ten years, and then tell the program to convert Mondays through Fridays to be 1 and the weekends (Saturday and Sunday) to be 0. With this function, you've converted non-numerical data to a binomial function of a weekend or a weekday. Once this is done, you can rerun the regression analysis with the new, modified data and the new null hypothesis. The software will tell you what factors affected the electric usage the most: the rainfall/snowfall and/or the weekends, and by how much usage was affected. The program will tell you with mathematical certainty by what factor of 1.0 the electricity usage was affected. If the experiment was run in Excel, and the regression showed that rain had a factor of 0.25 and day of the week had a factor of .72, then you would know that each inch of rain or snow increased the electricity demand by a factor of +25 percent, and each weekend day increased the electricity demand by a factor of +72 percent. (Other software programs would give you this information as well, but in somewhat different forms.)

Nate Silver One statistician who rose to fame during the 2012 US presidential election is Nate Silver (1978–). He correctly predicted the election's outcome in forty-nine of the fifty US states, gaining a reputation for infallibility. This was shaken in 2016, when his website FiveThirtyEight gave Hillary Clinton a 71 percent chance of defeating Donald Trump in the race for president. Like most statisticians analyzing the race, Silver was wrong, but he continues to have a reputation for careful and usually correct statistical analysis. From this

the electric company can build a model: it can enter the expected rainfall, then add what day of the week it is, and come up with the expected amount of extra electricity demand for the day. This is another example of how multiple regression statistics is done in real life.

There may be other factors, but the inputs are constantly modified to get the study to the point where you can find data on it. You are building a model, and if your model is changed by changing the independent variables, that's fine. In this way you again are using the smoothing effect that is the norm in statistics. Remember: statistics isn't a pure science. It is the art of using math to interpret and predict outcomes.

WHAT REGRESSION DATA TABLES TELL US

Using Data to Build Predictive Models Computer software will show you a lot of information from a typical multiple regression analysis, a method of finding the relationships between how events or observations affect one another. But keep in mind that while much information is given, only some of it may be required to get you to the point where you can accept or reject your null hypothesis. Even less of it may be necessary to build an efficient, simple predictive model. Here is some of the data that comes from running a regression test.

R SQUARED

This tells you what percentages of the dependent variables that are centered around the mean are affected by the independent variables. If you got a 90 percent here, that means that 90 percent of the data is affected by the independent data. R^2 The coefficient of determination, R^2, tells you what percentage of the output variable is explained by the input variable.

COMMERCE QUIZ

1. A developed economy uses _____ technique in production

   a) labour intensive
   b) capital intensive
   c) home-based
   d) traditional

2. Under Inductive method logic proceeds from

   a) General to particular
   b) Positive to normative
   c) Normative to positive
   d) Particular to general

3. At trough production is

   a) High

   b) Low
   c) Negative
   d) None

4. Which is not an example of coincident indicator

   a) Inflation
   b) GDP
   c) Interest rate
   d) Financial market trend

5. Fashion Retailer is business of

   a) Cyclical business
   b) Sun rise business
   c) Sluggish business
   d) None of these

MUMS: A CONTAGIOUS DISEASE

Mumps is a viral infection that primarily affects saliva-producing (salivary) glands that are located near your ears. Mumps can cause swelling in one or both of these glands. Complications of mumps, such as hearing loss, are potentially serious but rare. There's no specific treatment for mumps.

Symptoms: The primary sign of mumps is swollen salivary glands that cause the cheeks to puff out. Other signs and symptoms may include: Pain in the swollen salivary glands on one or both sides of your face, Pain while chewing or swallowing, Fever, Headache, Muscle aches, Weakness and fatigue, and Loss of appetite.

Causes: Mumps is caused by a virus that spreads easily from person to person through infected saliva. If you're not immune, you can contract mumps by breathing in saliva droplets from an infected person who has just sneezed or coughed.

Prevention: The best way to prevent mumps is to be vaccinated against the disease. The mumps vaccine is usually given as a combined measles-mumps-rubella (MMR) inoculation, which contains the safest and most effective form of each vaccine. Two doses of the MMR vaccine are recommended before a child enters school. Those vaccines should be given when the child is:

   • Between the ages of 12 and 15 months
   • Between the ages of 4 and 6 years

College students, international travelers and health care workers in particular are encouraged to make sure they've had two doses of the MMR vaccine. A third

Parotid gland — Normal — Swollen parotid gland — Mumps
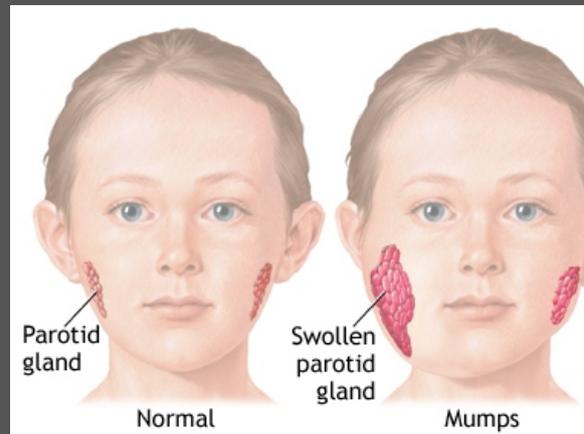
dose of vaccine isn't routinely recommended.

Treatment: Because mumps is a virus, it doesn't respond to antibiotics or other medications. However, you can treat the symptoms to make yourself more comfortable while you're sick. These include:

   • Rest when you feel weak or tired.
   • Take over-the-counter pain relievers, such as acetaminophen and ibuprofen, to bring down your fever.
   • Soothe swollen glands by applying ice packs.
   • Drink plenty of fluids to avoid dehydration due to fever.
   • Eat a soft diet of soup, yogurt, and other foods that aren't hard to chew (chewing may be painful when your glands are swollen).
   • Avoid acidic foods and beverages that may cause more pain in your salivary glands.

ADJUSTED R SQUARED

This number is used if there is more than one regression model. If you ran a multiple regression test, with multiple independent variables all at the same time, then this number would be your test number. It would act for each variable as the R squared would work for one variable.

STANDARD ERROR OF THE REGRESSION

This measurement tells how much error was allowed for in the overall test. It measures the precision of the regression. What you're testing for determines what level of error you're willing to accept. If you are to use your regression as a first step in building a model, then you will need to pay very close attention to this number. If you ran a regression of multiple variables and a few of them had a large error (meaning those variables tested with a very low precision level), then you would disregard these when building your model. For instance, if you're running a regression test in order to build a financial model—possibly the market level predictor test we looked at earlier—if you run ten tests and the standard of error on three of the ten is unacceptable, you should disregard these in building your predictive model. We can't stress enough how important error levels and precision levels are. Your margin of error must be within acceptable limits if the predictive model you're building is going to work.

OBSERVATIONS

This gives the data of the raw number of observations in the test. These second parts of the output from an Excel or R regression analysis aren't used that often, and you most likely wouldn't use them in model building, but they can be useful for a deeper and more complex statistical analysis. SUM OF SQUARES (SS)

- Regression mean square regression (MSR). This gives the regression sum of squares/regression degrees of freedom, whereas regression Mean Squares is defined as regression mean square error.
- Residual regression mean square error (MSE). This gives the residual sum of squares/residual freedom.
- Significance F. This gives the significance level. Critical point for the F distribution is defined as $F = MSR/MSE$.

ANOVA 101

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ANOVA BASICS

Analysis of Variance Tests

It is frequently the case that one might be interested in comparing differences in results among several groups. For example, a tire manufacturer would like to know how its best tire handles on different types of vehicles. To do so, the manufacturer would perform an analysis of variance (ANOVA) on the data collected.

ANOVA is a method of analyzing four or more separate chi-square tests. If these four or other small sample sets have related data—for example, if they are all from the same questionnaire, from the same study, or answer the same questions in the same test—then the data is related. The data of the tests might be so related that you would say they overlap. This might be because several small group samples were taken with the same end in mind: to measure the same variables. This would come into play if you were running an experiment with similar yet different target groups.

In this way, you would run the chi-square tests on each group each time, and then run an ANOVA test to further smooth the data that you received from all four or five chi-square results. This ANOVA testing acts as a data smoothing technique, as it is intended to give reports as to the averages of means of four or five separate tests. Keep in mind that statistics is not a hard science, and that there is a lot of leeway to use smoothing techniques when data is sparse. Also, keep in mind that with smaller groups of test data, or small sample sets, the data from each test will be very irregular.

This is because the test data has numbers as small as 40–50 or even smaller. You've learned that sample set testing works best when the sample set has 100 data points or more. A larger size leads to more random results, which also leads to fewer irregular observations. If you've run a small sample set test in your study, and although the numbers look good you'd like to reinforce your conclusions with further tests, then use the ANOVA tests on the data.

ANOVA versus t-Test

You use a t-test to compare the means of two populations and ANOVA to compare the means of multiple populations. Running an ANOVA test is simple on most statistical software. It's a great test to use if you're stuck with smaller sample sets, and you'd like to run those tests multiple times. You do this to test any imperfections in the data that are too irregular. A good way to use this is to run the small sample set four or five times, each one separately with chi-square, and then use the overlapping technique of the ANOVA testing. This has the effect of finding averages of means, softening the effects of outliers, etc., all done through a layering effect. When deciding

upon which tests to use, it's best to ask yourself what the end goal is with your test. You'll learn very little by running ANOVA tests with no data.

The best way to learn is to have a use for it: if you need to strengthen your results before you draw a conclusion on your data, then use it. If you need to gather information, test it statistically, and then use the results to either accept or reject your null hypothesis, then this test can help you be more confident in your results. Remember, any statistical test uses data and methods that can be repeated by other parties. You don't want to make a conclusion about a population by running a small sample set, only to find that when others make the same tests, they come up with entirely different results. There is an art to analyzing data and drawing conclusions, but this art must be backed by sound science as much as possible. In this way, consider using ANOVA testing when you run into smaller sample set testing. It will strengthen your results, and you will feel more confident in your conclusions.

ANOVA: Analysis of Variance is a *variability ratio*

$$Variance\ Between + Variance\ Within = Total\ Variance$$
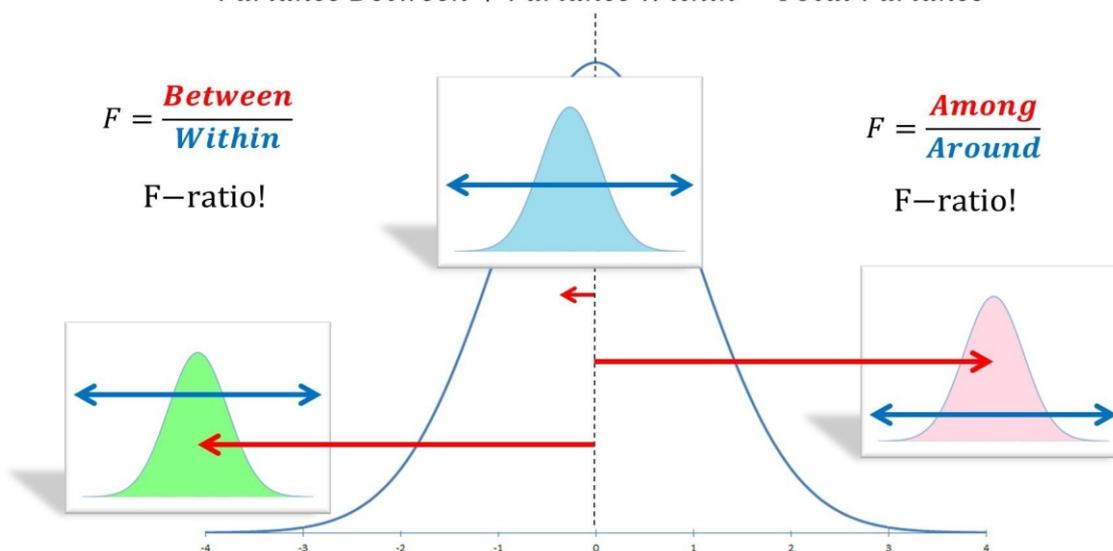
$$F = \frac{Between}{Within}$$

F−ratio!

$$F = \frac{Among}{Around}$$

F−ratio!

SUDOKU

SOLVE THE PUZZLE

3	8		9			2		5
					8	7	3	
	6		3			9	8	
						3	5	1
9	1		5		7		2	3
7		3	1					
	3	5			1		9	
	7	4	6					
8		1			2		6	7

Answer of the Previous puzzle

6	8	4	1	5	9	7	3	2
7	5	1	8	3	2	9	4	6
9	2	3	6	7	4	1	8	5
1	9	2	3	6	5	8	7	4
8	4	5	2	1	7	6	9	3
3	6	7	4	9	8	2	5	1
2	3	9	7	4	6	5	1	8
5	1	6	9	8	3	4	2	7
4	7	8	5	2	1	3	6	9

Complete the Grid so that every row, column, and every 3 x 3 box contains the digits 1 to 9. Solve the puzzle by logic and reasoning alone, there is no maths involved,

AND

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INTERESTING FACTS RELATED TO INDIAN LANGUAGES

Fact 1: The Constitution of India designates English and Hindi as the official languages of the Government of India. However, as per Article 343(1) of the Indian Constitution, it is only the Hindi written in Devanagari Script that is accepted as the official language of the Union Government.

Fact 2: Tamil, Sanskrit, Malayalam, Odia, and Telugu have been given the distinction of classical languages because of their long history.

Fact 3: The Eighth Schedule of the Indian Constitution recognizes 22 languages that are given status and official encouragement as well. The 22 languages have been referred to as the scheduled languages.

Fact 4: People of Mattur Village which is situated in Shimoga District in Karnataka, speak to each other in Sanskrit.

Fact 5: Sanskrit is the second official language of Uttarakhand. It is often supposed to belong to the same family as Latin.

Fact 6: Hindi has nearly 500-million speakers all over the world. It is the third most spoken language worldwide. Bengali and Punjabi are also included in the list of top 10 languages.

Fact 7: Telugu is an Indian language which is known as the 'Italian of the East'.

Fact 8: French is commonly spoken in Puducherry, even in today's time.

Fact 9: Tamil and Sanskrit both are one of the oldest languages of the world and have extremely strong oral traditions as writing came much later to India in comparison to other parts of the world.

Fact 10: 234 identifiable mother tongues are recognised as per the Ministry of Statistics and Programme Implementation report of 2011.

स्कैनर द्वारा

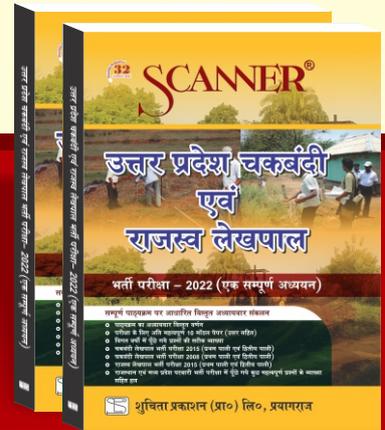## प्रतियोगी परीक्षाओं में सफलता हेतु प्रकाशित पुस्तकें

- **जिला विधिक सहायता अधिकारी परीक्षा 2022**
  (मध्य प्रदेश राज्य विधिक सेवा प्राधिकरण)

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  1. प्रवक्ता सॉल्व्ड पेपर्स **वाणिज्य एवं संस्कृत**
  2. प्रशिक्षित स्नातक शिक्षक सॉल्व्ड पेपर्स **इतिहास**

प्रकाशित

उत्तर प्रदेश
लेखपाल परीक्षा 2022

GAURAV MUNJAL

Gaurav Munjal is the Co-Founder & Chief Executive Officer of Unacademy. He was born in September 1990 in Rajasthan, India. For schooling, he attended St. Xaviers College in Jaipur. After that, he moved to Mumbai to pursue engineering. While studying B.Tech at NMIMS, he co-founded a startup called Flat Chat, a company that helped students find accommodations and flatmates. Besides that, he worked as a software developer at Directi for some time. In 2010, he started a Youtube channel named Unacademy, where he used to teach coding to students. Consequently, in December, he created Unacademy. Initially, he bought a whiteboard and recorded a video on his Laptop. The video was about Java, a high-level programming language. From grade 12, Gaurav was deeply interested in coding. His interest profoundly influenced the early stages of Unacademy's YouTube channel. In 2015, he decided to revolutionize India's educational system by developing Unacademy. In September 2015, Gaurav, along with Roman and Hemesh, started the journey of building the nation's biggest EdTech company. In less than a year, Unacademy provided free mainstream education to learners. Hundreds of educators and thousands of learners became a part of Unacademy. With more than 200 free courses and over one million viewers, Unacademy started climbing the ladder of success. Gaurav's vision turned into reality. In 2019, he launched a subscription-based product through Unacademy. The subscription offered many perks to the students, and, as a result, Unacademy gained more than 100,000 active subscriptions within a few months. Gaurav Munjal is actively involved in investments. He has invested more than INR370M in companies like AIRMEET, Avalon Meta, Pepper Content, One Code, and Dazo. Recently, his company Unacademy launched an offline training program. Through the program, Unacademy will facilitate many students with extensive study material and top educators.

THE DOG IN THE MANGER

A Dog asleep in a manger filled with hay, was awakened by the Cattle, which came in tired and hungry from working in the field. But the Dog would not let them get near the manger, and snarled and snapped as if it were filled with the best of meat and bones, all for himself.

The Cattle looked at the Dog in disgust. "How selfish he is!" said one. "He cannot eat the hay and yet he will not let us eat it who are so hungry for it!"

Now the farmer came in. When he saw how the Dog was acting, he seized a stick and drove him out of the stable with many a blow for his selfish behavior.
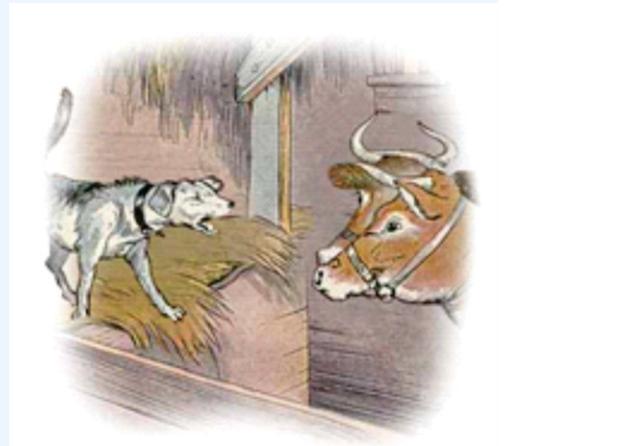
Moral: Do not grudge others what you cannot enjoy yourself.

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Thanking you in anticipation.
Warm regards,
Editor
Shuchita Times

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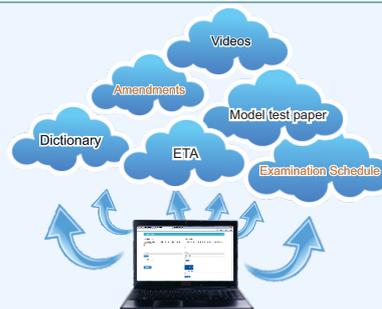
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Book Land	Guwahati	9864508257	Rohit Law Book Suppliers	Pune	9767258557
Kitab Ghar	Gwalior	8358957055	A.K. Enterprises	Pune	9822548146
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Dimond Stationars	Haridwar	9358398035	Shah Book Depot	Raipur	9425525675
Laxmi Book Depot	Haridwar	9760033004	Crown Book Depot	Ranchi	9431770109
Raj Kamal Book Centre	Hyderabad	9177121119	Singhai Brothers	Ranchi	9430790656
SIA Publishers and Distributor Pvt Ltd	Hyderabad	9908062032	Malhotra Book Agency	Ranchi	9308090536
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Jain Sri Stationery Store	Indore	9826749591	Karias Book Center	Thane	9921848488
India Publishing Company	Indore	9893296074	BOOK BANIYA	Thane	8286100100
Rahul Book Centre	Indore	7999507800	Minerva Books	Thrissur	9895478612
Vinay Pustak Sadan	Jabalpur	9300126517	Cosmo Books	Trichur(Trissur)	9846235292
Mehta Pustak Bhandar	Jaipur	9829448153	Agasthiar Book Depot	Trichy	9443370061
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Goyal Book Distributors	Jaipur	9414782130	Sri Rajeshwari Book Links	Visakhapatnam	9848036014
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Book World	Jodhpur	9829088088	Hemdip Agencies	Vadodara	9825094794
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Sanjay Book Depot	Kanpur	9336226210	Arunodaya Book Centre	Varanasi	9336971384
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IN SUCCESS

CYNOSURE OF THE MONTH

PRITI KAMAT
AIR: 1st CA IPCC (July 2021)
Mumbai, Maharastra.

1. **How do you feel after passing CA IPCC Examination?**
   I feel very relieved to have passed the CA IPCC with the best possible outcome. I am very happy to have made my parents proud as well.

2. **What all has contributed to this success?**
   Daily revision and constantly telling myself that I can get through this has been the mental push that contributed to this success.

3. **What challenges did you face during your preparation?**
   There were times where I felt that I have studied but I doubted myself about if I could recall my material and write in the exam paper the same way I practice at home. Retaining the syllabus was also an issue as it is vast.

4. **How could you cope up with them? How did your coaching/teacher(s) help you?**
   I made sure that at the end of the day, I revised everything I did that day for maximum retention. I also would read theory subjects daily without fail so I don't lose touch of the subject. I did take coaching for a couple of subjects but that only helps you get so far. After that it is all you and your motivation to get through this exam.

5. **Your advice to the aspirant for CA IPCC Examination.**
   Study hard, revise as many times as you can, be consistent with your schedule and always believe in your efforts. I promise you it will all come together and provide the best results you deserve for all your hard work.

6. **Your view about Scanner ?**
   I have only used the shuchita prakashan scanners since my CA foundation for the exams. And now in IPCC as well. It has all the past question papers all the way till 2012 (or until relevant) and module and RTP questions. Solving and going through a variety of sums was imperative to getting a deeper understanding of the subject and the scanners have helped me achieve exactly that. The scanners helped me prepare and revise properly for the examination and achieve the desired results.