Please do not delete what others are writing!

-Ok

-ok. Wakarimasta-wakaranai-knonoyaru pagayaru

- No pasta, Thakali khana

12: Influence of project team on software architecture

What are we supposed to do?

Hello

Hi

How are you?

Fine and what about you ?

I am good.

Name batman?

Superman

Fatman

Ronaldo is far more better than Messi.

When I saw messi I thought he was the best player. But when I saw Ronaldo I was assured Messi was still the best!

Messi is better than Ronaldo!

Hi, Lets not delete others are writing, ok :D

-ok

* Are you supposed to write the answers also here?
* no

Number: 10

Title: Securing IoT Devices

Abstract:

Introduction: As IoT is evolving day by day and a lot of hackers and crackers are also emerging. So, it’s pretty challenging for researchers to provide a good security mechanism in IoT devices.

Method: When sensors receive the data, the software built by us helps in encrypting the data using the algorithm which we have proposed, then after the data are sent to cloud send to cloud where decryption is done and data are processed.

Key Results: We became able to implement our software successfully in the devices that have memory more than 2 MB but not to all the devices.

Conclusion: We came to find that it is possible to encrypt the data but due to low memory in devices we can not buffer it for long time so we need to quickly send data to cloud otherwise we may lose data due to buffer overflow.

{

// This is me: Number 11:

Title : IoT in Open Sourced Education in Nepalese context

Abstract:

Internet of Things (IoT) is changing the conventional way of doing business. Education is an age-old profession being practiced in the society. Open Source has been in practice for more than two decades. The use cases experiments of the existing and evolving IoT technologies within the domain on education sector; particularly, the applications and solutions provided under the Open Source domain will be investigated. It will be documented with the learning process in 3 schools of Nepal. Existing 15 best practices for the Nepali education system to embrace the IoT in teaching learning practices will be documented. 5 new possible teaching and learning toolkit will be designed and developed in consultation with the educational institutions in Nepal. Improvement in the learning and teaching experience will be reflected by using the IoT based best practices and new toolkit. It will also create a case study for the educational institutions to engage in exploring innovative ways of using IoT in the education system.

};

Syntax error! Class name missing!

**Number:27 Title:Research into Database Technologies and its Implementation.**

**Question: How data driven technology can assist to gain values in Business?**

*Abstract:A business succeeds only if it learns from its past and future can be predicted from the trends and patterns of the past, It is important to keep proper records of all data and information so that a business value can be gained from past trends and patterns. Thus this can be made possible by the implementation of available database technologies which tends to be appropriate for the solution..*

***Intro****:Managing data in the today's word is a challenging issue. All types of data which are being produced have some values of their own thus they must be stored in a database so that efficient computing solutions can be generated from those data.And for storing those data and informations database technologies are working as an assistance. The companies like ORACLE , MYSQL are providing database platforms for storing data with precise backup and other features of their own so to maintain data integrity and data privacy.*

***Methods****: Detail analysis of available database technologies along with the data and information produced by the business and make a selection of an appropriate technology which could fits the requirements. Analysis could be done on the basis of the features and performances of databases.*

Number 12\

Influence of project teams on software architecture

**Number: 25**

**Ramesh Kumar Pudasaini**

**Softwarica College of IT and e-commerce**

**Title: Challenges of CryptoCurrency in the world Economy**

**What can be done to Solve the Problem raising in the World economy due to crypto Currency??**

[

Hy, I am Number 23

**Title:** Research into data security and integrity in cloud computing technologies.

**Question:** Why developing countries like Nepal are not accelerated towards cloud computing?

**Abstract:** As the rapid development of technology, Now the world is switching in cloud. But due to huge challenge and security vulnerability it’s great challenge to accept the cloud computing technology.

**Introduction:** Cloud computing is the new emerging technology where applications and resources are delivered on demand over the internet. It offers on demand use of third party tools that enables organizations to focus on their Business principle instead of mounting resources on computer infrastructure and maintenance based on pay-per-use. It is actively promising form IT applications; however, it has a problem to maintains user’s data security and privacy. To maintain data security cloud environment should trustworthy. Trustworthy is to gain confidence of clients to adopt technology.

**Method:**

**Result:**

**Discussion:**

**Conclusion:**

]

**Number 7:**

{

**AI - Artificial Intelligence, Negative impacts of it?**

**Abstract: AI may have both advantages and disadvantages**

**AI can surpass the human as its thinking power (e.g.: calculation) will be much higher than normal human. We know AI technology is developed by human i.e. it can be modified as needed. It can be used for the betterment of the society, nation or the whole world but what if it is used for criminal activities?**

**Let’s say there is any bug in AI devices and it start acting self. Example can be of Bollywood movie - Robot.**

**Examples: They may start developing other devices for their betterment and their evolution.**

**Human life may be in danger if AI will reach to its advanced level. We cannot be sure that AI will be in its limit and it will not go beyond the limitation of human/developers.**

**AI may replace human in day to day tasks which will cause their mental capabilities.**

**Beyond these all, my overall concern is what if this technology surpass the human??? Go beyond the limitation??? Enslave the human???**

}

**31: role of activation function in neural network**

**Motivation: what if there was no activation function idea?**

Abstract:

Neural networks are basically collection of neuron which is a linear by nature. To make non-linear data prediction using neural network, we need to rectify behavior of neurons so that non-linearity is gained. Activation function works as rectifier that threshold when a neuron is active. This research compares number of iteration a neural network takes to classify train dataset with and without using activation function. Training neural network using an activation function (sigmoid) was found to be 10 times faster than without using activation. While classifying a non-linear dataset, neural network without activation function was not able to completely classify the data while using activation function, network converged to the classification in just few iterations. These finding supports the hypothesis that activation function provides non-linearity and makes the network converge faster.

Number 17:

Topic: Impact of IoT on Nepalese society

Question: to identify the awareness level of IoT

Abstract: IOT is a new topic in Nepalese context. So my target is to find out the level of awareness on it; In the context of present Nepalese society and the volume of IOT users. Different techniques are going to be implemented to identify the user’s acceptance on it. Especially focus group and questionnaire techniques are used to do so. Result of my research may varised because the user’s level of understanding on it is very different due to the diverse internet society of Nepal and sometimes lack of proper guidance and awareness as well. Therefore as a part of CSR, we should plan for the different awareness programs of IOT which will increase the acceptance level of users.

}

Number : 30

Name: K . P. Joshi

**Title: Role of Machine Learning in Security**

**Question:** How Machine Learning will be able to provide security ?

**Abstract**

Machine learning(ML) is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many researchers also think it is the best way to make progress towards human-level AI. Machine Learning enables machines to learn from the supplied data. Data is the essential for ML. Normally we use Python as a Programming language for ML. ML can be applied where it seems necessary such as Detecting Helmets or Mask in ATM Machines.

**}**

**Number : 19**

**Title : Data Semantic Model in the context of our country Nepal.**

**Introduction**

**It is the data model in which we should relate the things which are in the cloud server (out of the reach of normal people ) with the real scenario or with the people who are remotely located through the local servers .**

**Method:**

**By this technique,we can make our information secure, we can access our informations at any time if we are really able to use this technique.For this we should link our local database servers**

**}**

Number :20

Topic: User Satisfaction for E-learning in Nepal

Number:28

Topic:Artificial Intelligence

Question:How it can be used to improve lifestyle of people in Nepal

**Number 29:**

**Title:- Li-Fi Technology**

**Question: How can we improve the current bandwidth of wireless network?**

**Abstract:** Light Fidelity (Li-Fi) is a bidirectional, high speed and fully networked wireless communication technology, similar to Wi-Fi, which can transmit information at very high speeds and with more secure and protected data transmission. It uses visible light communication or infrared spectrum (instead of radio frequency waves as in Wi-Fi) and is an example for photosensitive wireless technology within a localized data centric environment. Li-Fi is a free-band license-free technology that is less costly than existing wireless technologies which can use LED lights as light medium and Light Sensor to detect the light. This technology can be used in aircrafts because the lights present above head can be used for data transmission, can also be useful in controlling traffic at traffic signals as it communicates with LED lights of cars and in case of difficulty to amateur optical fibers and other wireless networks.

Number:9

Topic : Detection and prediction of landslide using Iot and sensors

Question : How it can predict upcoming problems in Nepal?

Abstract : Landslide is considered to be one of the major problem of late by several orders of Magnitude.it may arise in an extemporaneous way. Each year it causes destruction of lives of flora and fauna living in Pulchritudinous hills in Nepal. It destroys lots of natural resources found in pristine hills, properties and human settlements.therefore early detection and prediction of Landslide is essential for one and all living in Nepal as well as global world. With the advancement in technology growth i.e by the use of internet of things(iot) and sensors it may be possible to predict and detect as early as possible.sensors plays a vital role and are considered to be most useful. Our proposed systems consists of various kinds of sensors like pressure sensor, tilt sensor, humidity sensor, rain sensor,moisture sensor and so on. We are going to use the sensors in the landslide prone areas so that we can get immediate response from the sensors. We are going to connect the sensors with iot so that iot help in the earliest prediction and detection of landslide in the pristine hills. The track of exact location is necessary. We can track the location with the help of Iot. thus, we can get immediate response and it can blaze an ample path for one and all.

Number 1

Title: Need for a market of technological devices in Nepal

Details: The firewalls, routers, UPS and other network, electrical and security equipments are way too expensive to afford. Cloud services will be much affordable and would be more popular if there were more people to invest in.

Question: Why are we not investing on this market in this fast developing country in IT?

Abstract: You’ve probably already heard about it a thousand times but Nepal sure is progressing quite rapidly in terms of network and security. People are moving towards the cloud. Or should I say they want to. They are trying to but are not being able to due to the prices. Enterprises want to store their data in a data centre with cutting edge technology but what we have is bleeding edge technology. Even if the companies want to upgrade their products, devices like Palo Alto and other firewalls are already heck of a lot expensive and when they reach to Nepal, the prices are hard to even look at. A company has to wait for months to get their devices and services in the place. A company may be able to wait but customers? Ofcourse they can’t! They just need a reason for an argument. So the point is, just like people are investing in other things, they should invest in these too. Well the figures are hard to afford but if you were to look at the Return on Investment, it is definitely worth the look. Well it sure has risks like everything else but who knows what future beholds! With a better market and availability in the home country, the companies do not have to wait for the shipping and get the product faster than a girl getting ready with their makeup and also may be able to get at a reasonable price. The development of the country in the cloud sector will eventually increase noticeably. Until then happy carrying pendrives!

Probably should improve the abstract writing.be precise rather than elaborating.

Name: Smile Kisan (nice name!)

Number: ....??

Title: Internet Security

Question: How we can manage and be protected from online.

Answer: Use firewall, VPN, private mode in browsers. Just google :p

Internet has become a very important part of our life. People spend hours, days on internet without thinking much of their privacy. Internet Security has become more important like never before. Online fraud and data theft have become common. Process like encryption and use of VPN are used to protect the data from theft. In order to protect their privacy online, many protocols have been implemented. Despite of existing protocols, the security is possible only when the user knows about how to keep their data safe.

The people can protect their data when they know how they can apply these methods.

**No. 14**

**Approaches to avoid breaches on Networks** Bhas Raj Pathak  
 Softwarica College of IT and E-commerce  
  
 *Abstract*: There has been regular studies to avoid the intrusion in networks. Over the years more than 99% of data has been breached. There is need of proactive approaches to counter this issue. The Network breaches are troubling not only to one certain area lbut to all since we are in the era of Internet of Everything. This paper provides an approach to build a new algorithm using different algorithms, be it symmetric or asymmetric. All RSA, DES and AES algorithms are used. The algorithm is inspired using prime numbers. The multiple encryption algorithm following the presence of a set of prime numbers will be distinguish and the code will be hard to break. The decryption algorithm is carried out by multiple decryption process in which prime numbers are used in reversed order as the prime numbers were introduced. Those prime numbers act as a key and according to stages they will be used.The main aim is to build strong algorithm through which only designated user can have access to the network.   
*Keywords*: RSA algorithm, DES, AES, Networks, intrusion, IoE, prime numbers, encryption, decryption, key.

Number 6: Economic Networking in Nepal

Answers Question: how can one setup a Network in small organization economically in a better way?

Abstract:

Generally in networking the devices used are switches, routers are of cisco and other vendors which are expensive. The devices of these vendors are very expensive for a small organizations of Nepal. They have limited budget for networking part. Instead of those devices we can use a routers of Mikrotik which has almost similar features but economically it is far better and easily available in a market. These devices can operate along with the devices of Cisco, so we can design a complete network of an organization in organized way using a mikrotik router and some simple switch if needed.

**Number: 25**

**Number 34:**IoT and its viability of Sensing features for the disabled

How can we use IoT based devices to aid the blind, deaf, etc.?

Abstract:

It is of no doubt that the disabled have life much difficult than normal people really do, generally because of poor sensory abilities. With the advent of IoT, this can be tackled and help improve the lives of the said people.

Various measures were to taken to integrate such devices as wearables so as to assimilate into the daily lives of such people. We embedded the devices with various kinds of wearables, crutch, etc. It became evident that each kind of disability needed to be treated specifically. Several designs were implemented, tested and employed against each kind of disability. Eg., motion sensors to augment spatial awareness for the blind and deaf.

IOT devices are low power and have sensory capabilities. Though the process was not complex. The designs and specs listed here, along with the implementation details have been deployed successfully. The designs we came up with were un-intrusive and practical.

We conclude IoT technology to be perfect for such people in need. We present various ideas and concepts for mass implementation at the end.

**Student Number 35**

Behavioural analysis of customers

What are customers buying patterns and how to analyze the data

**Abstract**

Abstract

Customers are a key part of any stores and they have their own budget on what they can buy, they have their own time table; as a result they have their own set of patterns of what they prefer and when do they buy the prefered goods. These data can be used to retain customers and attract more customers to generate more revenue. The use of devices such as cameras and qrc scanners are used to track the customers and the item and analyse what the customers bought and at what time; which part of the store they spent the most time on and how much did they spend on their current visit and the use of these data to attract more customers and to retain the current customers. This paper explains how to implement such devices to acquire such data and analyse the data to generate more income by helping to rearrange the items in store based on what the average customers want and what the average customers can afford.

**Number 21: Mangesh Dutta**

**Title:** Blockchain technology

**Question:** How blockchain technology will revolutionize the society?

**Abstract:** With a blockchain, many people can write entries into a record of information, and a community of users can control how the record of information is amended and updated. Likewise, Wikipedia entries are not the product of a single publisher. No one person controls the information. Descending to ground level, however, the differences that make blockchain technology unique become more clear. While both run on distributed networks (the internet), Wikipedia is built into the World Wide Web (WWW) using a client-server network model. A user (client) with permissions associated with its account is able to change Wikipedia entries stored on a centralized server. The distributed database created by blockchain technology has a fundamentally different digital backbone. This is also the most distinct and important feature of blockchain technology.

The distributed database created by blockchain technology has a fundamentally different digital backbone. This is also the most distinct and important feature of blockchain technology.

It is this difference that makes blockchain technology so useful - It represents an innovation in information registration and distribution that eliminates the need for a trusted party to facilitate digital relationships.

Yet, blockchain technology, for all its merits, is not a new technology.

Rather, it is a combination of proven technologies applied in a new way. It was the particular orchestration of three technologies (the Internet, private key cryptography and a protocol governing incentivization) that made bitcoin creator Satoshi Nakamoto's idea so useful.

**Number 4: Real-time collaborative editing with separate userspace**

**Abstract:** Real-time collaborative editing tools allow people to share documents and contribute knowledge via the Internet in an efficient and economic way. Although real-time collaborative editing provides such benefits, it is also host to ethical malpractices. In this paper we illustrate and discuss several of these difficulties encountered on real-time collaborative editing tools. Along with it, we propose a model where each of the collaborating users have an independent userspace maintained for them such that their work is "locked-in" not letting anybody take it over other than the document creator. When implemented in Google Docs, which provides easy interface to implement the model with its API available via Google Apps Script, the model showed an increase in the efficiency of users by 30%. With the help of this proposed model, we can hope to cut down on ethical malpractices that happen too often in collaborative editing tools.

**Number 3:**

**Machine Learning to analyze IOT data**

**Abstract:**

With the IOT devices implemented, there is going to be a large collection of data in each device. But these datas are different for each user and useless if not extracted. This paper presents a model to analyse these datas using machine learning to analyse individuals living patterns. The model generated patterns, obtained after observing for certain time, will be used in recommending something to the user. It is expected that the system incorporated with our model will be able to analyse users habits as well as detect change in their lifestyle, their mood. Also in case of a device not working properly, the pattern could be incorporated into new device to preserve the pattern. This model will make people’s life easier when implemented in the sensors around them. It can make the IOT devices intelligent.

**Bishal Hada (Volunteer) : Impacts of IoT in the context of Nepal.**

**The Internet of Things (IoT) is the name given to the development of devices (rather than people) being attached to the internet – sharing, collecting and processing data. The rapid growth and possibilities for the IoT mean that it is one of the most exciting fields to be involved in.**

**t**

Number 32: Sujan Devkota

**IoT - Make High Tech devices with good user experience**

How IoT will make it possible for any layman users to use cutting edge technology and simultaneously feel comfortable with it?

Abstract:

High Tech devices are often very difficult to use and require technical knowledge. Devices using latest technologies becomes a conundrum for most of the people without such knowledge. Most high tech devices solve the problem but they are not very friendly to use. Using IoT, we can built a high tech device that can solve a complex problem and yet keep it very simple to use. Use of IoT has made

layman users able to do tasks that required technical expertise in the past with such ease that now they never want to go back to the old style of doing that thing.Fusion of many fields like electronics, internet technology and softwares makes IoT able to solve many complex problems. Use of IoT will enable even the layman users easily adapt with latest technologies and use it. Hence, use of IoT can make high end devices user friendly and easier to use.

Name:Shweta Shrestha

Topic: Near hospital available

Question:People have problem to find the hospital of their problem

Abstracts

Most of the people have the health problem in the context to Nepal.People feel hard to find the hospital of their problem.I would design a web application which is near to the location .According to their problem which hospital is best and their cost also.I want to develop the web application for the solving this problem.

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**Number 15:**

**Epidemic analysis using SIR model with spatial projection integrated to IOT systems.**

***Abstract***:

Epidemic response without the use of IOT applications for data elicitation and computation results in slower analysis. We propose a model named M2 for implementing IOT systems where the selected population is tagged with a health sensor. And using real time SIR modelling, the computation results are synced to responder’s dashboard. We compare our proposed system’s latency with 2014-16 Ebola analysis, which is done without any IOT system. We log the geographical projection being 80% faster. Thus, disease modelling is made more efficient using our model in epidemic response scenarios. It will aid humanitarian responders to save more lives by making better decisions.

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**Number 12**

**Influence of software project team coordination on software architecture.**

***Abstract:***

Majority of software development time is spent on coordinating among the development team. It will be very useful if we can find a suitable balance between Coordination mechanism and the software architecture. Software Architecture plays an important role in laying out the Coordination structure of a project. In this thesis we have surveyed x number of software projects, their architecture and the Coordination mechanism involved. We have found that x% of the software projects do have matching correlation between the s/w architecture used and the Coordination

**ID:02**

**IoT Sensor Nodes to Enhance Safety Measure in Narrow and Curve Highways of Nepal**  
 Ritu Raj Lamsal , Deerwalk Institute of Technology, Kathmandu  
  
**Abstract**Nepal has unusual landscape and highways are built in terrain where many turns are encounter between the cities. The roads are narrow and in many case the visibility of opposite vehicles are almost zero. This has a huge impact on road accidents and casualty in both material and lives are recorded. The common practice is to use sound signaling and light signaling however this is a manual intervention. This paper demonstrates the use of IoT devices embedded in the vehicles so as to alert the driver in due time to have a control on the vehicle. The RF sensors has range suitable for real time alert to prevent any mishaps. After the deployment of these IoT Sensor nodes the road accident has come down to 15% from the previous year of 55%. The result shows that better and efficient sensor nodes and IoT can be a promising technology for road safety.

No:5

Title:Big data analysis for society

Nawaraj Khadka

Abstract

As more people are using technological devices in day to day life, the amount of data generated is mounting.

We have records about people's financial status, expenses,income and even likes and dislikes. These are simple things yet can have

a powerful impact on society if used wisely. From predicting behaviour of people through their activity record

to preventing possible crimes through behavioural pattern analysis, data analaysis can have big impact on society.

Primarily, these data needs to be collected and stored properly in normalized manner. The next step is to differentiate

the collected data into different groups based on certain criteria. The data thus divided is analysed later on through

pictorial presentation like bargraphs and piecharts, abstract presentation through animations or even audio visual presentation.

Pattern analysis afterwards help to compare trend in which particular person's data has been deviated or repeated throuhout the period.

It helps in predicting the next behaviour of person under similar circumstances. The prediction made can prevent possible

crimes, unwanted behaviour or even economic catastrophe which might happen in near future.

Data analysis if used wisely can have a big impact on society and can help make a better world through prediction and pattern analysis.

Romisha Thapa

Security Threats that may arise from AI?

What out life would be without technologies? We couldn’t be able to communicate or let’s say it has preserved our time and invest it on different innovative research and development.It’s making our life easier from different perspective for example: you can record data through which many products are being manufactured according to the needs and requirement of the people. But beside all how secure is it to create an AI. I wonder one day the robot will start making another robot. Last time I had seen a video where social robot was giving an interview. Is that mean human are too busy for doing some innovative research that they created robot to analyse the current situation in society.