



SHIV HARI TEWARI
Data science intern


PERSONAL DETAILS


Father's Name: Dr.Divya Darshan Tewari

Gender: Male

Date of Birth: 18/07/1999

Marital Status: Unmarried

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 <https://github.com/Shivhari99>

EXPERIENCE

Successfully Completed 3 month internship as Machine Learning Intern at Intellify.

From 09-April-2020
to 11-June-2020.

Worked as Data Science Intern at Iha Consulting Pvt. Ltd.

From 01-June-2020 to
14-Jan-2021.

Working as Freelance Python developer and analyst (using R programming and python) at ABR solutions Pvt. Ltd.

From 24-09-2020

Completed Industrial Training in Bharat Sanchar Nigam Limited in Basic Telecom with effect.

From 13-June-2016
to 20-Aug-2016 at
Gonda SSA.

HARDWARE AND SOFTWARE SKILLS



Programming Language

C, JAVA (Core), R Programming, SQL, Ethical Hacking Information Gathering, WEKA(Data Mining), Advanced Data Structure, Advanced Algorithms, Python and Data Science, Python, PowerBI.



Operating System

Windows, Kali Linux, Ubuntu Linux, Fedora Linux.

PROJECTS AND PUBLICATIONS

Challenges in vehicular ad-hoc networks(a survey)

A Vehicular Ad-hoc network (VANET) is a branch of Mobile Ad-hoc network(MANET) in which the nodes are moving it plays an important role in road safety and intelligent transportation of vehicles. In this project we are working on various parameters in VANET and what kind of challenges we are still facing in VANET which affects the road safety.

Artificial Intelligence and its impact on Cyber security.

Artificial Intelligence is an essential part of our life today and we cannot imagine some of our important tasks to be done without its help, today people depend on it so much that they can't do a single task without its help. For example; let's take a scenario of online transaction, all you need to do is just one transaction and your device will save all the details of your card that you've used for transaction. Now let's think about it what if someone who wants your card details and can sniff your device has entered inside your device using some kind of tool like for android there is a very common tool named "SpyHuman" used for getting information from someone's android device. Using "Wireshark" and "SQL Injection" someone can enter inside the website or a system. So, in this paper I studied some papers and data from websites and take an overview that is it ok to be dependant totally on Artificial Intelligence, what if AI has saved our data and someone is already sniffed our device and entered in it, took it from there and the person who was dependant on AI has to pay the price for his/her dependency on AI. Also, I've taken the reviews that how hackers can use our AI against us and what is the future of AI in cyber security. In future maybe in some fields of cyber security AI will replace humans specifically in field of data and information gathering. The main reason of human replacement in this field is that gathering too much data from some server or system starts to give boredom to humans after sometime but machines can't get bored that's why they can replace humans in this field. But on the other hand too much dependency on AI can be a reason of a cyber attack that can interfere your private and personal life. A research done by Darktrace said that in future there is a possibility that there could be a cyber attack done by an AI which could be any AI driven malware which mimics a human behaviour due to that there is a possibility of increased scalability and stealth of this malware.

Data Science and its applications in Cyber Security (Cyber Security Data Science)

In a computing context, cybersecurity is undergoing massive shifts in technology and its operations in recent days, and data science is driving the change. Extracting security incident patterns or insights from cybersecurity data and building corresponding data-driven model, is the key to make a security system automated and intelligent. To understand and analyze the actual phenomena with data, various scientific methods, machine learning techniques, processes, and systems are used, which is commonly known as data science. In this paper, I have briefly described the data science its evolution its applications in cloud security and how cybersecurity data science came in existence what kind of advantages are given by CSDS and its steps like, where the data is being gathered from relevant cybersecurity sources, and the analytics complement the latest data-driven patterns for providing more effective security solutions. The concept of cybersecurity data science allows making the computing process more actionable and intelligent as compared to traditional ones in the domain of cybersecurity. After that I have described the various upcoming challenges that can emerge after the frequent applications of cybersecurity data science (CSDS), how machine learning and deep learning are applicable in it and types of algorithms that can be applicable in it. So, the overall paper is not only focuses on the origins of Data Science but it also describes its modern uses for the relevant cyber security field and data driven intelligent decision making system can protect our system from known and unknown cyber attacks

Blockchain, crypto currency and its abuses in Dark Web

The blockchain technology is a distributed ledger system where it is distributed among the users who does the transactions using this technique, it first came in trend after the sudden rise in the value of bitcoin in 2017 and then people get to know about this blockchain system and its working, it provides anonymity and security both to the user and that is why crypto currencies like Bitcoin and now Monero are using the blockchain method to ensure the safe, secure and untraceable transactions. Anonymity and security are like two edges of the same sword, they can be used for the great purposes like protecting the privacy of people, fostering, freedom of speech etc on the other hand they can be misused for the illegal activities happening over the internet like cyber terrorism and perpetrators often go unaccounted for their acts. Where there are many qualities of

blockchains there are also some downsides too, because of increased security and anonymity it worked as a fuel for the dark web users to illicit transactions and do the illegal activities on the dark web. In this paper we have shown what are the downsides of blockchain, how the transaction happen on the dark web and how we can regulate and track the illegal activities on the dark web using regulated and sovereign backed crypto currencies.

AI based chat-bot using python and machine learning:

A chatbot is an artificial intelligence-powered piece of software in a device (Siri, Alexa, Google Assistant etc), application, website or other networks that try to gauge consumer's needs and then assist them to perform a particular task like a commercial transaction, hotel booking, form submission etc . Today almost every company has a chatbot deployed to engage with the users.

Some of the ways in which companies are using chatbots are:

- To deliver flight information
- To connect customers and their finances
- As customer support

The language that is used to create the chatbot is python and the libraries are NLTK and scikitlearn, apart from that all we need is a good editor to run the code and execute it efficiently and hence our chatbot is ready to learn and answer the queries asked.

Analysis of BMI and creating the strength training program with meal planning for athletes using Python and AI:

The day when covid -19 lockdown initiated everything happened to be closed and it effected the sports academies and its coaches, so I working as a Data Science Intern has gathered the dataset of some ideal athletes (male and female) to and analysed the BMI of them to monitor the activities of the new athletes while they are away from their academy, so their coach can easily evaluate them as they've done their training or not, apart from that I have worked on the program to plan their training program as well as their meal. The packages that are used are Streprogen, matplotlib, sklearn, pandas and Keras and the editor is Jupyter.

ACADEMIC QUALIFICATION

	Grade	Institute	Performance
2019-21	M.Tech.(CSE) (Pursuing)	Birla Institute of Technology, Mesra.	8.27 CGPA
2014-18	B.Tech	GL Bajaj Institute Of Techonlogy And Management	65.90%
2013	Intermediate	Balrampur Modern Inter college	89.8%
2011	High School	Balrampur Modern Inter college	69.16%

CERTIFICATIONS

Course	Institute	Issued on
C language	INCAPP	23-Mar-2016
C++	INCAPP	30-Apr-2016
Java Core	INCAPP	08-Nov-2016
Ethical Hacking	Croma Campus	20-Sep-2019
Python for data Science	Udemy(Online)	13-May-2020
R Programming	Udemy(Online)	11-June-2020
Data Science	Udemy(Online)	09-July-2020
Machine Learning using R and Python	Udemy(Online)	23-July-2020
Artificial Intelligence	Udemy(Online)	25-August-2020

ACHIEVEMENTS

- Achieved young researcher award from InSc, Bangalore.
- A recognized youngest research reviewer at InSc Bangalore.
- Achieved a gold medal for securing highest marks in Intermediate Board exams in Physics, Chemistry and Hindi in 2013 at district level.
- Qualified for award of Scholarship for Higher Education(SHE) under Innovation in Science pursuit for Inspired Research (INSPIRE).

EXTRA-CURRICULAR

- Achieved a 'B' certificate of National Cadet Corps (NCC) from 51st Battalion unit, Balrampur.
- Achieved a Scouts and Guides certificate at district level.
- Achieved a state level certificate of child scientist from National Children Science Congress.

DECLARATION

I hereby declare that the above mentioned information is correct upto best of my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

SHIV HARI TEWARI