

## I. Mentors/Experts from the Academia

### Prof. Yatindra Nath Singh

#### About the Mentor

Prof. Yatindra Nath Singh(<http://home.iitk.ac.in/~ynsingh/index.shtml>)  
Professor  
IIT Kanpur

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	Distributed software implementation in open source
<b>Topics</b>	Contributing to open source Brihaspati4 a peer-to-peer network-based software system.

### Prof. Alok Katiyar

#### About the Mentor

Prof. Alok Katiyar  
Professor  
Galgotias University

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	Cyber Security
<b>Topics</b>	Cyber Sense and Security

## Dr. Tushar Goel

### About the Mentor

Assistant Professor  
National Institute and Technology Uttarakhand

(<https://www.linkedin.com/in/dr-tushar-goel-2560b5198>)

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	RF and Microwave Engineering
<b>Topics</b>	Designing Planar Antenna solutions for future applications. It will include hands-on CST MWS and ADS simulators, MATLAB, or snow thickness detection in the Upper Garhwal region by using POL SAR data, or Analyzing and investigating various hazards due to the Microwave and its effect on the ecosystem.

## Dr. Adil Sarwar

### About the Mentor

Assistant Professor  
Aligarh Muslim University, Aligarh

(<https://www.amu.ac.in/faculty/electrical-engineering/adil-sarwar>)

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	Electrical Engineering
<b>Topics</b>	Switched-Capacitor Multilevel Inverter

## Dr. Ramesh Kumar Bhukya

### About the Mentor

Assistant Professor  
Indian Institute of Information Technology Allahabad, Prayagraj

(<https://iiita.irins.org/profile/225026>)

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	Signal Processing, Machine Learning, Deep Learning Using MATLAB or Python Tools
<b>Topics</b>	Automatic Speaker Recognition, Speech Emotion Recognition, Speaker Diarization, Biomarker Speech Using Covid-19

## Dr. Smriti Agarwal

### About the mentor

Assistant professor  
MNNIT Allahabad

(<http://mnnit.ac.in/profile/previewa.php?id=1736>)

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	RF and microwave
<b>Topics</b>	Antenna design, microwave sensor

## Dr. Daya Sagar Gupta

### About the Mentor

Assistant Professor  
Rajiv Gandhi Institute of Petroleum Technology, Amethi UP India

Links to the pages:

<https://www.rgipt.ac.in/faculty/Faculty/FacultyProfile?Sid=JDEJHMAIL4%3D>

<https://scholar.google.co.in/citations?user=KLxwmP0AAAAJ&hl=en>

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	Cyber and Information security including Blockchain
<b>Topics</b>	-

## Dr. Amit Kumar Roy

### About the Mentor

Assistant Professor  
JSS Academy of Technical Education, Noida

LinkedID: <https://in.linkedin.com/in/amit-kumar-roy-88615516>

Department Page: [https://jssaten.ac.in//assets/images/ee/profiles/Faculty-Profile\\_Amit.pdf](https://jssaten.ac.in//assets/images/ee/profiles/Faculty-Profile_Amit.pdf)  
Google

Scholar: <https://scholar.google.com/citations?user=aHJFvhYAAAAJ&hl=en&authuser=1>

ORCID: <https://orcid.org/0000-0002-9651-1686>

Research Gate: <https://www.researchgate.net/profile/Amit-Roy-30>

<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his Personal capacity
<b>The domain of the Internship:</b>	Microgrids
<b>Topics</b>	Integrated Control Techniques in Grid-Connected Microgrid Systems

## II. Internship by the Companies

Company: Enciphers Labs Pvt Ltd, Noida	
Links: <a href="https://enciphers.com/">https://enciphers.com/</a>	
<b>Mode of internship:</b>	<b>On-site</b>
<b>Internship on behalf of:</b>	COMPANY
<b>The domain of the Internship:</b>	Cyber Security
<b>Topics</b>	Penetration Testing, Vulnerability Research, Full-stack development.
<b>Remark</b>	Encipher would not be conducting internship be in teaching/training mode. Instead, the student will be required to work on live project along with the Enciphers team. The students are therefore required to be self-motivated to learn and work on their own while working with the team. The necessary requirements would be provided by the company.

Company: NCode Sutram for Artificial Intelligence Private Limited, Prayagraj	
<a href="http://www.ncodesutram.in/">http://www.ncodesutram.in/</a>	
<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	COMPANY
<b>The domain of the Internship:</b>	Computer Vision and Biometrics
<b>Topics</b>	Introduction to Python, Machine and Deep Learning with applications in Computer Vision and Biometrics, Projects.

### III. Mentors/Experts from the Industry

Dr. Prateek Sikka	
<b>About the Mentor</b>	
<b>Dr. Prateek Sikka</b> Sr. Principal Engineer STMicroelectronics, Delhi ( <a href="https://www.linkedin.com/in/prateek-sikka-55a6339">https://www.linkedin.com/in/prateek-sikka-55a6339</a> )	
<b>Mode of internship:</b>	Online
<b>Internship on behalf of:</b>	In his personal capacity
<b>The domain of the Internship:</b>	FPGA Emulation, HLS
<b>Topics</b>	FPGA Emulation, HLS

## Mr. Shahrukh Khan

About the Mentor

Product Manager - Cloud,  
Nxtradata Ltd., Gurgaon.

(<https://www.linkedin.com/in/shahrukh-cloud/>)

**Mode of internship:**

Online

**Internship on behalf of:**

In his personal capacity

**The domain of the Internship:**

Cloud Technology (IaaS) in Azure and AWS.

**Topics**

Topics that can be covered during the tenure.

1. Overview of Data Center and Virtualization
2. Importance of Virtualization
3. Components in Virtualization
4. Overview of Cloud (IaaS, PaaS and SaaS)
5. Components of Cloud
6. Designing a Public Cloud
7. Various HyperScalers and their offerings
8. Detailing of AWS (IaaS) components and their usage.
9. Detailing of Azure (IaaS) components and their usage.
10. Architecting a Solution on AWS/Azure
11. QnA