



Goldman Sachs Summer Analyst, 2022 | Visiting Researcher, UK Energy Markets, London Business School |  
Data Science for Social Good Fellow – University of Warwick UK | ML Lead, Student Ambassadors of Microsoft Learn

## **B.E. in Computer Science with a Minor in Finance**

2019-2023

Birla Institute of Technology and Science, Pilani – Pilani Campus

## **Experience**

Incoming Visiting Researcher / London Business School

Aug-Dec 2022

- Invited to model short-term energy markets in the UK and develop a **trading algorithm**.

Data Science for Social Good Fellow (DSSGx) / University of Warwick, UK

Summer 2021

- Worked with **The Federal Ministry for Economic Affairs and Energy of Germany**.
- Halved the mean squared errors** (to 0.164) of unemployment rate forecasts.
- Authored a chapter in the textbook**: "Neue Dimensionen in Data Science", launch at Kunstmuseum, Germany Sep 2022.
- Developed **multiple models** (SARIMAX, VAR, deep neural networks) and incorporated auto machine learning in **Python**.
- Worked on Streamlit to build an application to deploy the model with adequate abstraction for use by economists.

Data Science Intern / LuMos, Silicon Valley (Social Media Startup)

Summer 2020

- Generated **the trending statistics** from the posts of users and fed into the media recommendation engine.
- Challenges Addressed: i) ORB algorithm's focus on texts. Solved by tuning the edge threshold parameters.  
ii) Misclassification of grainy images. Refined the distribution of generated key points using confidence thresholding.
- It **successfully classified all (10000+) posts** on the platform into **20+ unsupervised classes** demystify distribution of the content.

Summer Analyst 2022 / Goldman Sachs

Summer 2022

- Ideated and organized the event that recorded the highest participation in the All-India Goldman Sachs Hackathon.
- Created new orchestrations, that will process billions of dollars in personal loans with better scalability.
- Minimized client loss by developing a command to restart the loan applications that fail due to production issues.

Machine Learning Lead of Microsoft Ambassadors / Microsoft Learn Student Partners

Aug 2021-Apr 2022

- Led a team of 20 ambassadors for a year as their ML Lead to **create** open-source projects and **learning pathways**.
- Designed** and Evaluated Multiple different **Data Science projects** used to select new members.
- Conducted a workshop with Microsoft employees to teach BITS students about **ML on Cloud** with Microsoft Azure.

## **Research Projects**

Image Domain Translation using GANs / Deep Learning

- Adopted different GAN architectures to translate RGB images into HSI hyperspectral images to use in security and self-driving solutions.
- Developed **novel architecture with 100 million+ parameters** and trained on gigabytes of data in a **remote server** using Python on Linux.

Correlation Carbon Dioxide Emissions to Green Cover / Computer Vision and Satellite Data Processing

- Calculated Time Series CO<sub>2</sub> density data from NASA's OCO-2 data for **5000+ Landsat satellite data files**.
- Inferred correlations between density of CO<sub>2</sub> with the green cover of countries using Python presented in Jupyter Notebooks.

## **Positions of Responsibility**

President / Safety and Medical Advisory Council, BITS Pilani

- Led a team of 4 programmers and 2 writers to create a blog site: [Website Link](#), and Coordinated 3 first Aid and a Stem cell Registry camp.

Vice President of Membership / Toastmasters, BITS Pilani

- Quadrupled number of women members in the club to win the Triple Crown and Magical Leader award from District 41 of Toastmasters.

## **Certifications**

[Neural Networks and Deep Learning](#) / Coursera

[Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization](#) / Coursera

[Structuring Machine Learning Projects](#) / Coursera

[Sequence Models](#) / Coursera

[Introduction to Data Science in Python](#) / Coursera

[Convolutional Neural Networks](#) / Coursera