

MANAV GUPTA

7th Semester Undergraduate Electronics and Communication Engineer

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Projects

Forecasting short term solar irradiance using Statistical and Deep Learning techniques

Mentor – Vinay Anand Tikkiwal

July – November, 2019

- Built a predictive model of Solar Irradiance using Auto Regressive Integrated Moving Average.
- Created a prototype in Python using Sklearn, Statsmodels, Numpy, Matplotlib, Pandas.
- Constructed a forecasting model using Long Short-Term Memory (LSTM)
- The model's weights are optimized using Bio-Inspired algorithms (Cuckoo Search Algorithm and Grey Wolf Algorithm) and obtained results using LSTM.

Predicting stock market indices based on public sentiment on Twitter during COVID-19 pandemic

Mentor – Vinay Anand Tikkiwal

January – July, 2020

- Extracted tweets related to COVID-19 from March-May using Twitter API.
- Analysed the dataset using data mining techniques like sentiment analysis and topic modelling.
- Predicted stock market indices(NYSE, SENSEX) using models such as linear regression and Long Short Term Memory.

Education

Year	Degree	Institute	CPI/CGPA
2017-ongoing	Bachelor's Degree(Electronics and Communication Engineering)	Jaypee Institute of Information Technology,Noida	8.2*
2016-2017	AISSCE(10+2)	The Khaitan School, Noida(CBSE)	91%
2014-2015	AISCE(10)	The Khaitan School, Noida(CBSE)	9.6

Computing Skills

• Catia V5	• Python	• C
• AutoCAD	• MATLAB	• Multisim

Online Courses

- Introduction to Aerospace Structures and Materials – DelftX
- An Entire MBA in 1 Course: Award Winning Business School Prof – by Chris Haroun
- Introduction to Satellite Communication - Institut Mines-Télécom Business School
- Robotics: Aerial Robotics - University of Pennsylvania

Training Undertaken

- Completed training for Python and Machine learning (6 weeks) under DUCAT, Noida.
- Completed AutoCAD training (6 weeks) from Internashala.