Palak Agarwal

Last Updated on 21st September 2020

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EDUCATION

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
B.Tech in Electronics and Communications
July 2021 | CGPA - 7.6

KIDDY'S CORNER PUBLIC SCHOOL
AISSCE | CBSE
April 2017 | Percentage - 80

ST. PAULS SCHOOL
AISSCE | CBSE
April 2015 | CGPA - 9.4

LINKS

Github:// palak-agarwal
LinkedIn:// palak-agarwal

SKILLS

TECHNICAL SKILLS
- C
- C++
- Python
- Data Structures
- SQL
- LATEX
- Machine Learning

SOFT SKILLS
- Public Speaking
- Decision Making
- Leadership
- Team Management
- Adaptibility

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithm
Matrix Computation
Probability and Random Processes
Digital Signal Processing
Control System
Telecommunication Networks

INTEREST

- Sketching
- Reading
- Swimming

PROJECTS

COVID-19 EFFECT: PREDICTING STOCK MARKET MOVEMENT BASED ON ANALYSIS OF PUBLIC SENTIMENT AND DISCUSSIONS ON TWITTER DURING THE PANDEMIC
Mar-Jul' 2020

- Text Data is scrapped from Twitter's API using Tweepy library in python.
- Stock market data is obtained from Yahoo finance website.
- Opinion mining is performed using Sentiment Analysis and Topic Modelling.
- Regression model is built to predict opening and closing prices of stock market indexes.

DEEP LEARNING TECHNIQUES FOR SOLAR IRRADIANCE FORECASTING
Sep–Dec' 2019

- Pre-processed the data set using Principal Component Analysis (PCA) for dimensionality reduction.
- Built a forecasting model using Long Short-Term Memory (LSTM) trained using Stochastic Gradient Descent.
- Built model's weights are optimised using Bio-Inspired Algorithms (Cuckoo Search Algorithm and Grey Wolf Algorithm).

FORECASTING SHORT TERM SOLAR IRRADIANCE USING STATISTICAL METHOD
JUL–AUG' 2019

- Solar Irradiance dataset is obtained from NREL website from January 2010 to December 2014.
- Built a predictive model of Solar Irradiance using Auto Regressive Integrated Moving Average (ARIMA).
- Built a prototype in Python using Sklearn, Statsmodles, Numpy, Matplotlib, Pandas.

EXPERIENCE

NAANIZ | Machine Learning Intern
Jun-Aug' 2020
Kitchen surveillance system

- Created a custom dataset by scrapping google images for required classes using Fastai.
- Extracted images dataset is labelled using Labellmg.
- YOLOv4 is used for Object Detection to ensure hygiene and safety measures during COVID-19 pandemic.

INTERNSHALA | Machine Learning Trainee
Jun-Jul' 2020

- Working with Python libraries.
- Data Manipulation and Exploration.
- Predictive Modelling
- Supervised and Unsupervised Learning.

EXTRA CURRICULAR

- Runner up at Converge-2018. Annual sports festival of Jaypee Institute of Information Technology in Basketball.