Sudeshna Purakait Maurya (1) Featured



seeking roles in Data Analysis, Quantitative Analysis, Data Science, Data Mining, Data Visualization, Predictive Modelling, Statistical Modelling, Machine Learning Algorithms, Business Intelligence, Time Series Analysis, Python, Tableau, SQL, R, Matlab, Linux



Current Location: Gurgaon Total Experience: 1 Year(s) 3 Month(s)

Pref. Location: Delhi / NCR, Noida, Gurgaon Notice Period: 15 Days or less

Functional Area: IT Software - System Programming Highest Degree: M.Tech [RS and GIS]

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Married

Key Skills: Data Analyst, Data Analysis, Quantitative Analysis, Data Science, Data Mining, Data Visualization, Predictive

Modelling, Statistical Modelling, Machine Learning Algorithms, Business Intelligence, Time Series

Analysis, Python, Tableau, SQL, R, Matlab, Linux

Verified: Phone Number | Email - id

Last Active: 2-Feb-20 Last Modified: 27-Jan-20 ID:

f2ec75ac1c6d43d5a442c1fcfc717574

Summary

1.4 +years experienced & result oriented data analytics professional possessing proven track record of successfully applying machine learning techniques to solve key atmospheric science related research problems. Highly skilled in applying advanced machine learning/statistical algorithms such as Gradient Boosted Trees, Random Forests, Ensemble Models, Clustering etc. to real world problems using Python. Looking forward to applying the acquired gamut of skills to a challenging role in the data analytics space.

Work Experience

IIT Bombay as PhD Research Scholar Jul 2016 to Oct 2017

Data Collection

Conducted extensive research on scientific data-sets in the field of atmospheric Science

Gathered scientific data from different sources like satellite, in situ and numerical model for extensive analysis in the field of atmospheric research.

Data Wrangling & Visualization

Cleaned, merged and manipulated data-sets using Pandas

Created various charts in Jupyter Notebook using Matplotlib to perform a preliminary analysis on the collected data

Python Machine Learning

Applied various machine learning techniques using Python for deterministic and diagnostic analysis of Indian Summer Monsoon Rainfall

Applied various parametric and non-parametric hypothesis tests to solve atmospheric research problems

Regression Modelling

Directed model development and validation of satellite derived rainfall data against rainfall data obtained from Indian Meteorological Department over Indian landmass Attempted to establish relationship between aerosols, cloud parameters and rainfall over various parts of India using linear regression model

Time Series Analysis using Matlab/ r

Perform Time series analysis of rainfall data sets and attempted to extract the extreme rainfall events using Peak Over Threshold method

spatial distribution of the frequency and intensity of extreme rainfall events have been plotted to identify the most prone zone of extreme rainfall events over India Granger causality test has been performed for determining whether the time series of aerosol is useful in forecasting the rainfall.

ECHAM Model running

Attempted to run ECHAM model for the prediction of future rainfall under different scenarios of aerosol

Key Achievements

Achieved to identify the most prone zone of extreme rainfall events in terms of the frequency and intensity of rainfall

Education

UG: B.Sc (Physics) from University of Calcutta, Kolkata in 2012

PG: M.Tech (RS and GIS) from Indian Institute of Remote Sensing (IIRS), ISRO in 2016

Other Qualifications/Certifications/Programs:

Python Certification Training for Data Science from EDUREKA

IT Skills

Skill Name	Version	Last Used	Experience
Python, Tableau			
SQL, R			
Matlab, linux			

Languages Known

Language	Proficiency	Read	Write	Speak
English	Proficient			
Hindi	Proficient			
Bangoli	Proficient			

Affirmative Action

Category: General

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time