Three-Day Workshop on Data Science and Artificial Intelligence using Python (November 08-10, 2023)

Organized by

Theoretical and Applied Sciences Unit

Indian Statistical Institute, North-East Centre

Tezpur, Assam – 784501

In association with:

Department of Computer Science and Engineering

School of Engineering, Tezpur University

Napam, Tezpur, Assam – 784028

About the Workshop

In the interdisciplinary field of data science, knowledge is derived from data using algorithms, scientific computing, and statistics. It blends ideas and methods from mathematics, statistics, computer programming and artificial intelligence to help provide meaningful information and insights over a large volume of data.

Artificial intelligence is frequently related to the development of cognitive abilities similar to those of humans, such as voice interpretation, game play, pattern recognition, etc. Artificially intelligent systems learn to do this by sifting through vast volumes of data and searching for patterns to use as models for their own judgment.

Python is the programming language that is widely used by Data Scientists. The built-in mathematical libraries and functions in Python make solving mathematical problems and conducting data analysis simpler. The rich Python libraries contain significant sets of analytical and mathematical tools making it the preferred choice for programming when it comes to fields like Data Science and Artificial Intelligence.

The proposed workshop is intended to introduce faculty members, researchers, and post-graduate students to the fields of data science and artificial intelligence. The curriculum for the workshop combines the delivery of information through lectures and hands-on sessions using the Python programming language. The workshop is expected to instill confidence among the participants in the emerging areas of data science and artificial intelligence with proper understanding and use of Python packages and libraries to effectively handle complex problems.

About Indian Statistical Institute, North-East Centre, Tezpur

The Indian Statistical Institute was founded by Professor P.C. Mahalanobis in Kolkata on 17th December, 1931. The Institute gained the status of an Institution of National Importance by an act of the Indian Parliament in 1959. The North-East centre of the Institute at Tezpur was inaugurated on July 23, 2011 by Shri Pranab Mukherjee, Hon'ble Union Finance Minister and Chairman of the ISI council. This is the fourth centre of ISI, joining the existing centres at Delhi, Bangalore, and Chennai.

The North-East Centre runs a Post Graduate Diploma in Statistical Methods and Analytics course with 50% of the seats reserved for students domiciled in the states of north-east region of India. In addition to the regular courses, the centre conducts regular workshops on Official Statistics, Application of Statistics to Natural, Life and Environmental Sciences for persons engaged in Government/Academic Institutions in the North-East.

It is envisaged that the north-east states will be able to improve their official statistical system with help from this centre. The centre aims to create a pool of scientific personnel with strong Statistical background that will be helpful in many areas like planning, forecasting and model building, data analysis etc.

Who Can Participate and Criteria of Selection

Registered PhD students, independent researchers, faculty members and post-graduate students of any recognized public and private universities from any field that requires some aspect of data analysis and programming techniques to operate on data are eligible to participate in the workshop by filling up the prescribed application form and confirmation of payment. **An applicant can fill up the application form available in the link below, latest by 2:00 PM on October 30, 2023.** The details of the account to make the payment will be shared with the shortlisted candidates through email.

Application Form: https://forms.gle/dEJ6ou3Q43dZThPy6

There are only 30 vacancies for the workshop. It is expected that there shall be many applicants for the workshop and the applications shall be shortlisted based on first-come-first-serve basis. The application process shall be closed once the required number of participants is fulfilled. **Therefore, interested candidates are encouraged to apply early and not wait till the last date.**

In case an applicant is shortlisted for the workshop he/she shall be informed through email by the coordinator of the workshop.

Candidates selected for participation are encouraged to bring their own laptops for better understanding and smooth functioning of the hands-on sessions.

Registration

Registration fee for the workshop (including GST) is Rs. 1000/- (Rupees one thousand only).

The participants shall be provided with workshop kit, refreshments and decent working lunch during the workshop. Certificate of participation will be provided to participants who duly participate in all the sessions. No certificate shall be issued to the participant, if he/she remains absent in any of the sessions.

Mode of Payment

Candidates applying for the workshop are required to pay the registration fee online. The details of account to make the payment will be shared with the shortlisted candidates. **Once the payment is made, the candidate is expected to attend the workshop and no refund will be issued.**

Please note that all communication to the participants shall be made via email.

Accommodation, Travel Support and Food

Partial travel support for Sleeper class train /Non-AC Seater Bus fare (return journey) as per government approved rates via the shortest route may be considered for candidates of the North-East Region on submission of valid tickets. On demand accommodation shall be provided to the outstation participants. Arrangements for Breakfast and Lunch will be made for all candidates at the workshop venue. Dinner will be arranged for outstation candidates availing the accommodation booked by ISI.

Important Dates

Application deadline: **October 30, 2023 at 2:00 PM or 30 applications, whichever is earlier**

Notification of shortlisting: **October 30, 2023**

Confirmation of registration: **November 03, 2023**

Workshop starts: **November 08, 2023**

Workshop ends: **November 10, 2023**

Address for Correspondence

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Workshop Organizing Committee

Organizing Chair: Professor Balakrishnan Ramakrishnan, Head, ISI-NE Centre, Tezpur

Conveners: Dr. Sanjit Maitra, Assistant Professor, TASU, ISI-NE Centre, Tezpur

                    Dr. Arindam Karmakar, Assistant Professor, CSE Department, Tezpur University

Members: Dr. Darpa Saurav Jyethi, Assistant Professor & Head, TASU, ISI-NE Centre, Tezpur

                    Dr. Tribikram Pradhan, Assistant Professor, CSE Department, Tezpur University

                    Dr. Koyel Mandal, Research Associate, ISI-NE Centre, Tezpur

                    Mr. Subash K., Administrative Officer, ISI-NE Centre, Tezpur

                    Dr. Sanjay Karmakar, Accounts Officer, ISI-NE Centre, Tezpur

Coordinator: Mr. Bibek Sharma, Associate Scientist 'A', ISI-NE Centre, Tezpur

For more details, please visit: https://www.isine.ac.in