RASHTRIYA RAKSHA UNIVERSITY

(An Institution of National Importance)

Pioneering National Security and Police University of India

Training Programme On Data Science and Artificial Intelligence

15th – 19th Feburary, 2021

Jointly organized by

**Research and Publication
Rashtriya Raksha University**

**Symbiosis Centre for Applied Artificial Intelligence (SCAAI)
Symbiosis International University**

About Rashtriya Raksha University (RRU)

Rashtriya Raksha University is an Institute of National Importance, a Pioneering National Security and Police University of India. The University is destined to grow as a model security educational University of India. Its endeavours focus on highly professional security, strategic and defense education, research and training through its qualified civilian and military faculty, committed human resource, motivated participants and students, intellectually stimulating and professional disciplined environment and world- wide network, sharing and exchange. It aims at providing security and strategic education in the contemporary and futuristic security and strategic studies and interdisciplinary areas. Rashtriya Raksha University ouers academic, research and professional degree, post-graduate diploma and diploma programs in the various subjects and these programs runs under the following mentioned schools, they are; (1) School of Internal Security and Police Administration (2) School of Information Technology, Artificial Intelligence and Cyber Security (3) School of Maritime, Air and Space Studies (4) School of Military Auairs, Strategy and Logistics (5) School of Forensic Science and Risk Management (6) School of Foreign Auairs, Languages and Political Economy (7) School of Criminology and Crime Science (8) School of Law, Humanities and Social Sciences (9) School of Applied Science, Engineering and Technology (10) School of Physical Education, Sports and NCC (11) School of Security Technology Development, Manufacturing, and Exports.

Research is an integral part of the activities of RRU. University ouers M.Phil., Ph.D. & PDF Programs, Internship, trainings, and consultancies, carries out Research. Projects funded by University and External Agencies. It has cells like Intellectual Property Rights Cell and Publication House. R&P publish books on Police Science, International Research Journal on Police Science, University Magazine, Conference proceedings, etc. The university is also having well developed and sophisticated research labs in forensic science, behavioural forensics and Cyber Security as well as developed various internal security products, which were copyrighted and registered for Patents. It regularly organize Seminar, Conferences, ToT's, Workshops, Awareness Programs and Value-Added Courses, etc. Recently we had organized National level Research Methodology workshop sponsored by ICSSR, International Conference on Police Science & National seminar on IPR and Cyber Security.

About Symbiosis University

Symbiosis International (Deemed University) is a multi-disciplinary university offering its students and faculty a vibrant learning ecosystem designed around its multi-cultural and innovative ethos. Established in 1971 by Prof. Dr. S.B. Mujumdar, it is a 'home away from home' for International students. The Institution is based on the principles of Vedic thought of "World as One Family". The University's name fittingly captures the quintessence of the relationship with International students; a mutually beneficial bond between India and the International student community. Symbiosis is committed to building international understanding by offering quality education, and is resplendent of the activities and students of more than 85 countries. Symbiosis Centre for Applied AI (SCAAI) is established in May 2019 and is affiliated to Symbiosis Centre for Research and Innovation (SCRI). The primary aim of this centre is to spearhead the advancement and novel developments in various application areas and promotion of the advanced research and education in the field of AI. Along with this SCAAI engages in interdisciplinary research to address pertinent issues that could involve a huge spectrum such as finance and banking to healthcare. More information can be found at www.scaai.eu.in

About the Program

This program focused in the areas of Data Science and artificial intelligence and hands-on exposure to these techniques in Python. In this age of intelligent computing and smart solutions, machine learning and data analytics have percolated across domains. This 5 day program is planned to cover the fundamentals in Machine Learning, deep learning and reinforcement learning. A detailed listing of the various topics planned is provided in the brochure. The workshop shall draw expertise from the institute faculty and neighboring institutes of excellence such as IITs, and industry resource persons& PG scholars as part of its content delivery team. The primary aim is to provide the participants an exposure to various techniques theoretically as well as practically. Multiple hands-on sessions spanning across the topics will be conducted which will help the participants in realizing the various. The workshop targets faculty, research scholars, corporates and PG students who work in the areas of machine learning, data mining, big data analytics, etc.

Objectives of the Program

- To provide a forum to exchange views, ideas and latest innovation in the field of data science.
- To offer learning on basics to advance level of machine learning and deep learning via python programming sessions and theoretical foundation sessions.
- To provide the hands-on training using various tools.
- To focus on emerging trends and challenges in the challenging areas and to open a dialogue for multi-party collaborations.

Participants

Maximum 100 enthusiastic participants from corporate, academia, research community and student's community across the world having interest in Machine Learning and AI preferably with some experience in these domains are expected.

Patron

Professor (Dr.) Bimal N. Patel
Vice-Chancellor,
Rashtriya Raksha University
Member, National Security Advisory Board

Conveners

Prof. (Dr.) Priyanka Sharma
Dean (Research and Publication) &
Director - SITAICS
Rashtriya Raksha University

Dr. Ketan Kotecha
Director
Symbiosis Institute of Technology
Symbiosis University

Coordinators

Ms. Richa Sharma
Assistant Professor – SITAICS
Rashtriya Raksha University

Dr. Rahee Walambe
Associate Professor,
E&TC, SIT, Associate Faculty, SCAAI

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Registration Link

https://forms.gle/7ag1a9gRJzkJaF8B8

Last date of Registration

01st February, 2021

Contact Person:

Ms. Richa Sharma
Email- richasharma@rru.ac.in
Mobile : +91 9998327464

Fees Structure

	INDIAN	FOREIGNER
Students:	2500 + 18% GST = 2950/-	150 USD
Academicians/ Industrialist & Others	5000 + 18% GST = 5,900/-	200 USD

Including all taxes

Schedule

Date	Session 1	Break	Session 2	Lunch break	Session 3
	10.00-11.30	11.30-11.45	11.45-1.15	1.15 - 2.15	2.15 -4.30
15-02-2021	Inauguration and Keynote	Break	Primer on DS and AI	Break	Python Programming for Data Science (with Data visualization)
16-02-2021	Supervised Learning Algorithms		Python Packages for Supervised Learning Methods		Hands-on session on Use cases of Supervised Learning Algorithms
17-02-2021	Unsupervised Learning Algorithms		Python Packages for unsupervised Learning Methods		Hands-on session on Use cases of Unsupervised Learning Algorithms
18-02-2021	Primer on Deep Learning Algorithms CNN/ RNN and variants		AI for All		Hands on and Demo sessions on Use cases of DL
19-02-2021	New Directions in Deep Learning		Reinforcement Learning		Reinforcement Learning