



DATA SCIENCE AND PERSONALISED MEDICINE:

Making data-driven Personalised decisions

DURATION

THREE MONTHS

Online

ACCREDITATION

CERTIFICATE COURSE

2 SBV Credits

Start Date : June 17th 2022

Register before : June 15th 2022

Timing : Every Friday 1900hrs to 2000hrs

ABOUT

MAHATMA GANDHI MEDICAL ADVANCED RESEARCH INSTITUTE

Mahatma Gandhi Medical Advanced Research Institute established in January 2020, is an autonomous research-based institution with research autonomy and curricular activities in accordance with UGC guidelines and practices of Sri Balaji Vidyapeeth (Deemed to be University), Puducherry.

Gauged by a range of programs, MGMARI is geared towards producing human and knowledge capital that uses acquired knowledge in addressing quality of life, healthcare, workplace challenges, sustainable development and global economic competence.

Master at our pragmatic teaching and research innovation and persuasion by our external Scientific Working Group has enabled us to develop strong associations with industry, government bodies and charities. Our Scientific Working Group brings together representatives from leading biotechnology industries, external organisations, key employers, regulators and professional bodies to help inform our curriculum, employability and research outputs.

KNOWLEDGE PARTNER

OPTIMAL ONCOLOGY

Optimal Oncology Private Limited, is a cancer Medtech company up with a mission to set up AI & Omics enabled Asset-Light Comprehensive Cancer Treatment Centers in rural areas.

We are developing a clinical decision support system called "Naiomi" (Novel AI & omics) for oncologists to facilitate precision cancer diagnosis and evidence-based treatments, ensuring improved treatment outcomes at an affordable cost for patients.



ABOUT THE PROGRAM

Empowering healthcare professionals to gain knowledge of emerging technologies such as big data, machine learning, deep learning, and data sciences to make effective decisions with the goal of improving patient care.

WHO IS THIS PROGRAM FOR

- Doctors, Dentists, Bio Medical Industry and Healthcare Professionals (Pharmacy, Nursing).
- Medical and Biology Students
- IT and Biomedical informatics



PROGRAM

BENEFITS

- ★ Understand Data Science techniques and their applications to real-world scenarios
- ★ Understand the data type to choose while taking decisions
- ★ Understand Regulatory Compliance
- ★ Data driven decisions for healthcare professionals

PROGRAM

STRUCTURE

4 Weeks

Big Data and Data analytics in Medicine

4 Weeks

Machine learning and Deep Learning, Regulatory Compliance

4 Weeks

Real world Applications in Genomics, Image Analysis, Speech Recognition, Predictive Analytics

4 Hours

Hands on Workshop

COURSE CURRICULUM (ONLINE)

Every week Fri 7-8pm	Course Curriculum	Speakers
17-Jun	Software design principles - Full stack, AI and Big Data	Dr. Ashwin, CMO Optra Health Inc
24-Jun	Data Analytics & Evidence based medicine and How AI is changing medicine	
1-Jul	Medical data ontologies (ICD, SNOMED etc.) Healthcare systems interoperability standards: intro to HL7, JSON, XML (as per NRCeS, India)	Sujini, CSO - Product Development, Optimal Oncology
8-Jul	AI Frameworks for healthcare	Prashanth Ravindran, Associate Director, Mobius Knowledge Services
Quiz / Activity Sheet		
15-Jul	AI > Machine Learning	Nitin Sharma, Director Product Engineering, Optra Health Inc
22-Jul	Supervised vs. Unsupervised	
29-Jul	Deep learning & why is it different	
5-Aug	Regulatory Compliance for Digital health applications	Dr S.R.Rao, Vice President Sri Balaji Vidyapeeth
Quiz / Activity Sheet		
12-Aug	Real world application - Image classification & analysis	Avnish Parekh, CEO Neos Tech
19-Aug	Real world application - Speech recognition & Natural Language processing	Jesu Valiant, CEO Stratforge
26-Aug	Real world application - Supervised & Unsupervised learning in Predictive analytics	Dr. Balanehru, Director Sri Balaji Vidyapeeth
2-Sep	Applications - AI in Genomics and drug discovery.	Dr. Ashwin, CMO Optra Health Inc
Quiz / Activity Sheet		
Workshop (4 hours) -online		
10-Sep	Applying AI in clinical project	Sujini & Prashanth Ravindran

READY TO MAKE AN IMPACT!

APPLY NOW

<https://sbvu.ml/dspm>

Patron

SHRI M K RAJAGOPALAN

Chairman

Dr S R Rao

Vice President (Research, Innovation and Development)

Course Coordinators

SUJINI

CSO - Product Development
Optimal Oncology

Dr Veni S

MGMARI Scientist.

Registration Details

SBVU students and Faculty : Rs. 5,000/-
Others : Rs. 10,000/-

For more details contact

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