

COMBIGS - WEBINAR S SERIES

A series of webinars have been planned and organized on behalf of COMBIGS (Bioinformatics Students association) by staff coordinators -Dr.A.Sathya and Dr.L.Ramya of School of Chemical and Biotechnology. In this regard, an alumni talk was organized on 5.6.2020 (Teacher's day). Mr. Vishweshwaran Sridhar (2004-2008 alumnus of SASTRA, Dept. of Biotechnology), currently employed as Senior Data Scientist (Bioinformatics), Asia Genomics Pte Ltd. delivered an intriguing talk *on 'Machine learning and AI in Bioinformatics'*. Dr.K.S.Rajan, Dean, SCBT gave the inaugural address, motivating the students. The students were enthusiastically participating with a quest for machine learning and AI applications.



SASTRA
ENGINEERING MANAGEMENT LAW FINANCE HUMANITIES EDUCATION
DEEMED TO BE UNIVERSITY
1973 OF THE UGC ACT, 1956



*On behalf of students, staff and the management,
COMBIGS cordially invite you to the Webinar talk
on*

MACHINE LEARNING AND AI IN BIOINFORMATICS

by



Mr. Vishweshwaran Sridhar
(2008 batch of B. Tech. Biotechnology)
NTU, Singapore alumnus

on Saturday 5th Sep, 2020 bet 04.30-5.30 pm, G Meet link - <https://meet.google.com/ngr-simi-ubs>



Area's to Focus

- ▶ Programming - Python, R, SAS and Unix.
- ▶ Cloud - AWS, Azure.
- ▶ Data Science - Statistics, Machine Learning, Deep Learning.
- ▶ Think Beyond Bioinformatics - Imaging, Digital Health etc.
- ▶ Discuss ideas with your proffs.
- ▶ Build Network. Get in touch with your seniors. Get to know what they are doing.
- ▶ Be informed on latest advancements.
- ▶ Make complete use of all available resources at university.
- ▶ Marks may help get you a entry. Its your attitude that matters.



Vishweshwaran Sridhar

A second invited lecture on 'MR imaging and its biomedical applications' was organized by COMBIGS on 22.9.20. The mind sparking talk was delivered by Dr. B.S. Hemanth Kumar, Scientist D, DEBEL, Bengaluru. The students were exposed to the practical technicalities of MR imaging.

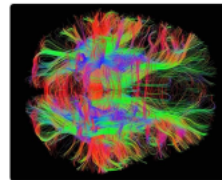


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MR Imaging and its Biomedical Applications



by
Dr. B. S. Hemanth Kumar
(Scientist D, DEBEL)
Bengaluru.



on Tuesday 22nd Sep, 2020 bet 04.30 -5.30 pm, G Meet link - <https://meet.google.com/fyp-mbky-rdh>



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Scope for Computer Science or Bioinformatics in MRI

- ❖ Signal Processing
- ❖ Image Processing
- ❖ RF Electronics
- ❖ Pulse sequence Designing
- ❖ MRS Processing
- ❖ Fibre Tracing
- ❖ rsfMRI
- ❖ ML and AI

Python
MATLAB
C, C++

MRI Tools used:

- 3D Slicer
- AFNI
- BRAINSUITE
- Brain Voyager
- Free Surfer
- FSL
- LONI
- MIPAV
- MRICro
- NITRC
- AIR
- SPM

CombigS-Speaker-2 (2020-09-22 at 04_04 GMT-7)

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HEMANTH KUMAR B. S.