



VIT-AP
UNIVERSITY

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5-Day International Workshop on Data Science Applications in Industry (ONLINE)

24th to 28th March 2022

Organised by
Department of Mathematics
School of Advanced Sciences



Scan to Register

E-Certificate
for participation

Last Date of Registration : 21st March 2022

Registration Link

<https://forms.gle/A9MoJXUvsUpaMWWcA>



About the Workshop:

The workshop aims to provide a holistic understanding of the influence of Data Science in different departments of the industry. This workshop gives a glimpse to the upcoming entrepreneurs on how to structure the modern industry efficiently around data. The lecture sessions cover applications of Data Science in Finance, People Analytics, Artificial Intelligence Ethics, Accounts, and Cyber Security. The speakers also focus on the applications related to product development to meet B2B and B2C needs. The introductory talks on R, Statistical Analysis System (SAS), and Python aim to equip the audience with the necessary knowledge to get the complete essence of the technical sessions.

For more details, please visit: www.iwdsai2022.com

List of Speakers:



Mr. Rahul Agarwal

Machine Learning Engineer
Facebook, UK

Title : Understanding Transformers
from Scratch



Dr. Satyanarayana Vuppala

Sr. Security Architect
CITI Bank, Ireland

Title : Applications of Data Science
in Cyber-Physical Security



Dr. Y Sreenivasa Rao

Assistant Professor
Department of Mathematics
NIT Warangal, India

Title : Data Securing Protocols



Dr. Aswin V S

Postdoctoral Fellow
IISER Trivandrum, India

Title : Fundamental concepts in
Python programming for Data Analysis



Mr. Ramasubramanian Swaminathan

Vice President
Compliance Assurance and Analytics
HSBC Bank, India

Title : Analytics in Compliance and Operational Risk



Mr. K Praveen Kumar

Data Scientist
People Analytics, Novartis, India

Title : People Analytics Solutions
with Data Science



Mr. Vamshi Krishna

Sr. Expert Data Scientist
Novartis, India

Title : Data Analysis in Finance with
Introductory session on SAS



Mr. Ashwath Sai

Sr. Data Engineer
Measured Inc., India

Title : Data driven approach for
SaaS based applications



Mr. Abhay Shukla

Lead Data Scientist
Meesho, India

Title : Product Recommendations
to a Billion Users in E-commerce



Mr. Kaveti Naveen Kumar

Sr. Data Scientist
Intuit, India

Title : Deep learning for Semantic
Text Matching



Ms. Vaishnavi V

Data Scientist
Royal Dutch Shell, India

Title : Data and It's Distributions



Ms. Roshna Raj T M

Data Scientist
DZS Inc., India

Title : How to be a Problem Solver
- Being a Data Scientist



Mr. Padam Naveen Kumar

Data Governance and Analytics Manager
CISCO, India

Title : Data Insights and Visualization



Mr. Ramakrishnan Ravisankar

Director & Chief Innovation Officer
Cantier Systems, India

Title : Shop floor Manufacturing Intelligence
leveraging Data Science Technologies



Mr. Ram T R

Co-founder
Predictly.co, India

Title : Telling a Story with Data



About the University:

Consistently ranked among the top educational institutes in the country, the VIT group of institutions has a proud tradition of pursuing knowledge and excellence. In keeping with this VIT tradition, the leadership at VIT-AP resonates a dynamic blend of academic initiative and industry partnership with a vision of creating one of the finest academic destinations in the world. With several years of educational, industrial, and administrative experience, VIT-AP is helmed by **Dr. G. Viswanathan**, Founder & Chancellor of VIT group of Institutions; along with the core group comprising **Dr. Sekar Viswanathan**, Vice-President; **Shri. Sankar Viswanathan**, Vice-President; **Shri. G. V. Selvam** Vice-President; **Dr. S.V. Kota Reddy**, Vice-Chancellor; and **Dr. C.L.V. Sivakumar**, Registrar.

VIT-AP offers several avenues to explore your interests, identify core competencies, and engage in an evolving lifecycle of education and growth. With flexible courses and a unique teaching-learning experience, state-of-the-art facilities, focus on continuous assessment and emphasis on practical learning, a student-oriented mentoring scheme, extracurricular activities, several international collaborations, placement opportunities, and much more, VIT-AP ensures that students are informed, inspired, and engaged in an enriching experience at the institute.

Institute Address: Beside AP Secretariat, Near Vijayawada, Andhra Pradesh - 522237, INDIA

Website: www.vitap.ac.in

About the School:

The School of Advanced Sciences (SAS), VIT-AP University houses the Departments of Mathematics, Physics, and Chemistry. Here students are taught how to think critically through project-based learning and not merely what to think. Students are encouraged to question, explore, and research throughout their studies, ranging across the various discipline of sciences. Our school aims at providing a solid foundation in natural Sciences, projecting the recent scientific and technological developments to the graduate, postgraduate, and Ph.D. students. We aspire to be a valuable contributor to the nation's growth and development by producing highly skilled professionals and by engaging in cutting-edge research. SAS earnestly pursues a vision of providing local, regional, national, and international leadership in research and technology development. We believe in the quality of education and research with ethical and professional standards for better tomorrow. Here students make their choices based on their preferences and requirements that equip them with a balance of logical-thinking and problem-solving skills which are essential to tackle today's and tomorrow's professional challenges.

Research:

Research is at the heart of SAS's vision towards becoming an internationally recognized center of knowledge and learning. The spectrum of research activities at SAS is extensive and distinct. Our faculty and scholars are keen not just to find technological solutions to problems but also to expand human knowledge and understanding.

Currently, the school has near about 60 Research Scholars pursuing a Ph.D. degree. The faculty members have contributed to academic research publishing and have successfully published research papers in over 120 journals and book chapters. SAS encourages faculties for collaborative research with faculties from foreign universities and presents their findings on international platforms.

The school has more than 25 registered faculties under the Research Grant in Engineering, Management, and Science (RGEMS), an initiative to motivate research that can lead to R&D projects. Undergraduate Research (URE) pursuits are encouraged by the school as well. In collaboration with the faculty, undergraduate students of engineering do active research, which leads to journal publications.



Programmes Offered:

Dual Degree Programme

B.Sc. & M.Sc. Data Science

(with exit option B.Sc. Data Science) [Scan to Visit](#)

PG Programme

M. Sc. Data Science

M. Sc. Physics

M. Sc. Chemistry

Ph.D. Programme

Mathematics, Physics, Chemistry



<http://vitap.ac.in/school-of-advanced-sciences/>

Department of Mathematics

The department at VIT-AP has 33 dedicated faculty members. With doctoral and postdoctoral experience from various prestigious national/international institutions, our faculty members are actively involved in research and teaching activities. The department offers two exclusive programs: Dual Degree Programme B.Sc. & M.Sc. Data Science (with exit option B.Sc. Data Science) and M.Sc. Data Science. The department further offers more than 20 different courses for UG and PG programmes of other Schools. Courses in Mathematics are taught by incorporating technology into classroom teaching using the right blend of traditional teaching tools and Computer Algebra Systems (CAS) such as MATLAB, Python, and R Programming. Use of CAS in the teaching-learning process establishes a student-centric learning environment where the students are taught Mathematics through experimentation and visualization.

The department offers research opportunities in a wide spectrum of areas of Mathematics such as Fluid Dynamics, Computational Fluid Dynamics, Solid Mechanics, Functional Theory, Graph Theory, Fractal theory & optimization, Lie Algebras, Stochastic Processes, Coding Theory, Theory of Computation, Fuzzy Logics, Optimal Control Problems, Numerical Methods, Cosmology, Regression Analysis, Estimation Theory, Decision Theory, Testing of Hypothesis, Statistical Process/Quality Control, Statistical Inference, Data Analysis, Distribution Theory, Demography, and more.

Department of Physics

The department offers an M.Sc. programme with a specialization in frontline areas of modern-day technology. Further, the department provides more than 10 different courses for UG and PG programmes from other Schools. The passion for basic and engineering sciences that stem from Physics is favoured by the students. The students devote practical hours at the lab to sediment their basics in physics and upgrade their know-how on the latest technologies. The department is actively engaged in research in the following fields: Nanomaterials, Transparent Conducting Materials for Optoelectronic Applications, Photovoltaics, Sensors, Composite Materials, Coatings, Condensed Matter and Biological Physics.

Department of Chemistry

The department offers an M.Sc. programme, along with 7 extra courses for the UG and PG programmes from other Schools. The environmental chemistry laboratory is planned to have advanced analytical instruments and laboratory process equipment for project-based hands-on training to the students in fresh water and effluent water analysis, soil testing methods, air pollution studies, etc. This exposure from doing live experiments would enhance the students' understanding of environmental studies. The department engages in research in the fields of Materials and Nano Science, Homogeneous Catalysis, Supramolecular Inorganic Chemistry, Spectroscopy, Coordination Chemistry, Molecular Machines, Organic Synthesis, among many other areas.



Registration Fee

	Indian Nationals	Foreign Nationals
Student / Research Scholar	Rs. 300	USD 10
Academic /Industry Applicant	Rs. 500	USD 50

Organising Team & Contact Details :

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Organising Secretary : Dr. Venkatrajam Marka

Co-Organising Secretary : Dr. K Mahipal Reddy

Registration Procedure for Indian Nationals :

1. Click on the registration link:
<https://forms.gle/A9MoJXUvsUpaMWWcA>
2. Indian applicant must pay the registration fee to complete the registration process.
3. **Payment gateway link** is provided in the registration form.
4. The generated **Application ID** and **payment receipt** are required to successfully complete the registration.

Registration Procedure for Foreign Nationals :

1. Click on the registration link:
<https://forms.gle/A9MoJXUvsUpaMWWcA>
2. After submitting the registration form, the applicant will receive a payment gateway link to their e-mail address in a couple of days.
3. To complete the registration, the applicant must deposit the fee through the **payment gateway link**, and mail the generated **Application ID** and **payment receipt** to iwdsai.2022@vitap.ac.in

Joint Organising Secretaries

Dr. R Sinuvasan

Dr. Nikunj Bihari Barik