ADITYA
COLLEGE OF ENGINEERING AND TECHNOLOGY

ENLIGHTENS THE NESCIENCE

Department of Information Technology

DEC- May-2021

MIND SPARK

Magazine

sparking

A LEARNING

REVOLUTION

Editorial Board

D.HARITHA
Asst.Prof

N.SURYA KALA
Asst.Prof

B.VENKAIAH
19P31A1210

D.SAI NAGA PAVAN
18P31A1214

G.DHARANI
17P31A1215

Chairman's Message

I believe in the philosophy of thought, word and deed as eternal which made Aditya what it is today.My thought to set a high bar to the institutions I setup by rising to the challenges of the educational field and get prepared for a life dedicated to the pursuit of knowledge.

DR. NALLAMILLI SESHA REDDY
CHAIRMAN

My word which always reflected my vision and gained the conviction of the heads of the institutes and parents,and my deed which makes my home and workplace as extensions of each other by considering the staff and students as the membersof my extended family shaped Aditya.

I know the value of a good education, more so because I did not have the benefit of the facilities that make the learning process smooth. I began my career as a lecturer, giving up my desire of qualifying in the Service Commission Examination. Out of my despair was born a strong determination which took the shape of Aditya Educational Institutions.Challenges, Competition and the fear of failure are natural, but success embraces those who face these with the can-do attitude. For me this can-do attitude is backed up by our state-ofthe- art infrastructure, picturesque & inspiring setting and devoted team of faculty-members and administrators. The learning ambience at all the constituting Institutions is perfectly suited for all-round growth and academic excellence. Today, the group has a proud record of evolving efficient, confident and highly knowledgeable technocrats, managers, pharmacists and entrepreneurs with global thinking and futuristic mind-set.

The present-day job market poses fresh challenges that need to be managed innovatively. Global business Incubation centre, Microsoft Innovation Centre, Technical Skill Development Institute, T-hub, Training and Placement Cell, GATE coaching etc., act as perfect vehicles for this.
I wish you all the best.

Information Technology

Vice-Chairman's Message

As a direct product of Aditya I know how my father toiled to place Aditya on the academic map of the country through its various phases of expansion even under the most trying circumstances.

My Masters degree from UTS Australia, the best university in the continent, has given me deeper understanding and insight into the education system. This was coupled with the ideology of my father which enabled me to take the onus of steering Aditya.

DR.N.SATISH REDDY
VICE CHAIRMAN

In succession, Aditya technical campus, Surampalem has been established to offer professional education in engineering, technology, management and pharmacy with the core concept of quality and excellence.

Ever since its inception in 2001, the campus has registered speedy progress by upholding its abiding commitment to advance knowledge and educate students in science and technology. The prime aim of the campus is to make teaching and research relevant to the practical world.

The campus offers numerous opportunities for the aspiring students which lay a strong foundation for the corporate world. T-Hub is a specimen of innumerable opportunities provided to students with enough competitive inputs to become T-shaped engineers, facilitate internship opportunities on the campus, develop partnerships with corporate and industry giants etc. through its various programs.

The ultimate aim of Aditya is to make the campus the 'first stop' for companies in the recruitment process. In this regard training and placement cell takes utmost care to groom students according to the needs of the industry.Keeping in view the demands of the work environment which is beyond just knowledge and marks, a lot of emphasis is laid on the overall personality development of the students. Various clubs run by the students, events like VEDA (technical fest) and COLOURS (youth fest) etc. challenge the latent talent in the students and bring them to the fore.

Finally a desire can change nothing, a decision can change something but a determination can change everything. For sure Aditya is strongly determined to provide its students a successful career

Wish you good luck.

Information Technology

Principal's Message

DR.T.K.RAMA KRISHNA RAO
PRINCIPAL

The significant problems we face cannot be solved at the same level of thinking we were at when we created them." - Albert Einstein. It is only through knowledge that man attains immortality. Knowledge has to expand or grow to remain knowledge. The road to excellence is toughest, roughest and steepest in the Universe. The world requires and honors only excellence. Available information has to be directed by wisdom and intelligence to create new knowledge. Promotion of creativity is the new role of education. It is only through creative thinking that the present and future problems can be addressed to find dynamic solutions. Technology should be used to help remove poverty from the world. In fact 40% of the world's poor are in India. Confidence leads to capacity. It is faith in oneself that produces miracles. Education at ACET helps build Character, Strengthen the mind, expand the intellect and establish a culture of looking at problems in a new perspective. The student is put through rigorous training so that he can stand on his own feet after leaving the portals of the Institute.

Information Technology

HOD's Message

MR.R V V N BHEEMA RAO
HEAD OF THE DEPARTMENT

Today the branch of Information Technology is becoming pervasive as technology is changing rapidly in the field of computer science. So the process of learning should not end with the acquisition of a degree.

Information Technology

INFORMATION TECHNOLOGY

The main source and strength of the department is its faculty, the department maintains the faculty as per the ratio , the main focus of the faculty members is to provide in-depth knowledge to the students in the respective course. The undergraduate program is emphasized on theoretical and practical aspects, apart from these the students are nurtured to participate in online coding competitions like TCS Hack Quest, Microsoft Imagine Cup, etc., the department has taken an initiation to expose the student towards the online coding platforms like Hackerrank, Code Chef. The department possesses computer labs with high end configuration and also CM Skill Excellence Center and also possesses a good placement record. Department of Information Technology organizes various workshops and seminars to the students to get an exposure in par with the trends in technology. Current industry needs a student with an exposure and skill set in Database Management, Artificial Intelligence, Web Development, Cloud Architecture, Project Management, etc., So the program driven by the department is managed to make the student industry ready.

Information Technology

Department mission

To provide an environment for the development of professionals with knowledge and skills
To promote innovative learning
To promote innovative ideas towards society
To foster trainings with institutional collaborations
To involve in the development of software applications for societal needs

Department Vision

To be a department with high repute and focused on quality education.

Information Technology

PSO'S

PSO 1:

Apply mathematical foundations, algorithmic and latest computing tools and techniques to design computer-based systems to solve engineering problems.

PSO 2:

Apply knowledge of Engineering and develop software-based applications for research and development in the areas of relevance under realistic constraints.

PSO 3:

Apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product.
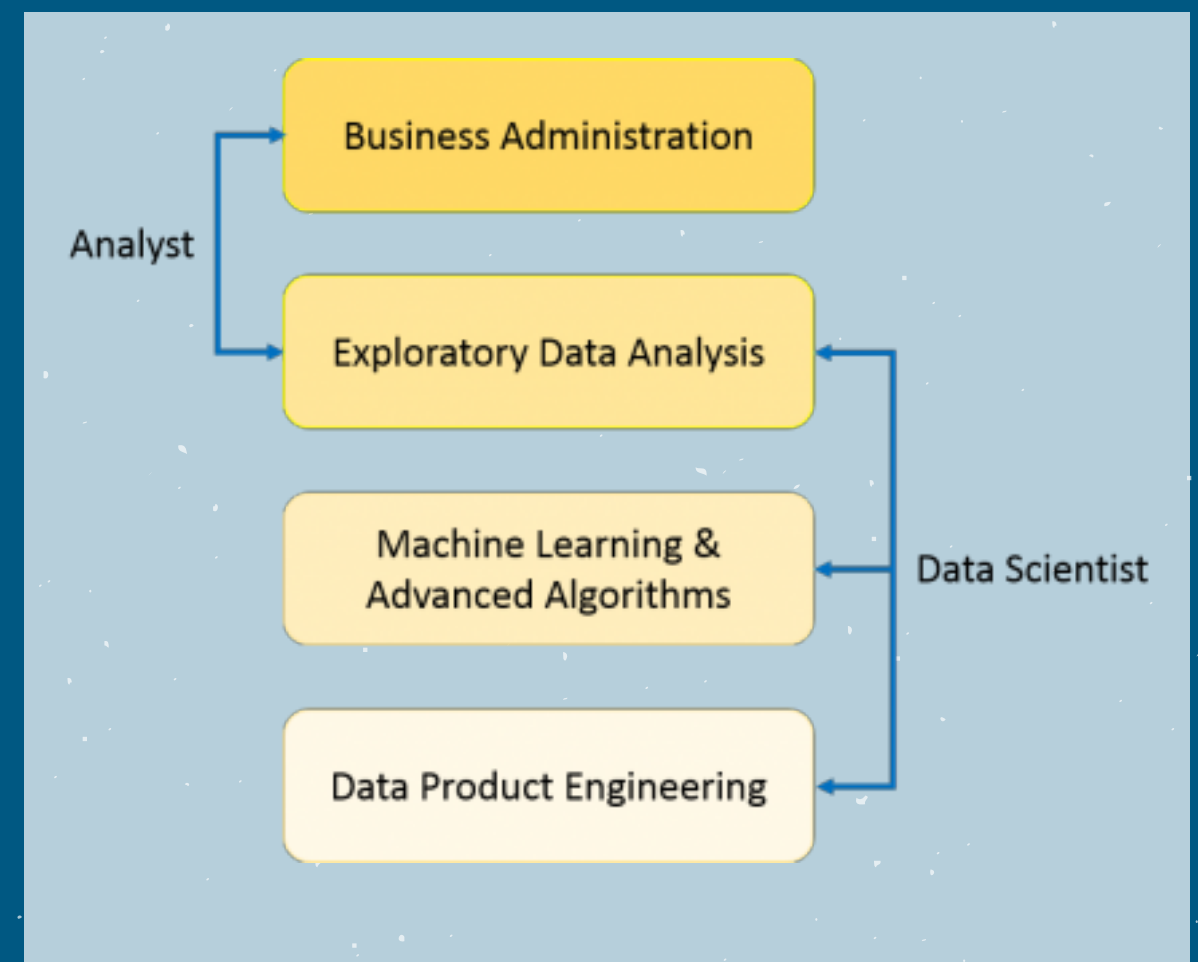
Information Technology

Data Science

Data Science is a blend of various tools, algorithms, and machine learning principles with the goal to discover hidden patterns from the raw data. But how is this different from what statisticians have been doing for years?

The answer lies in the difference between explaining and predicting.

As you can see from the above image, a Data Analyst usually explains what is going on by processing history of the data. On the other hand, Data Scientist not only does the exploratory analysis to discover insights from it, but also uses various advanced machine learning algorithms to identify the occurrence of a particular event in the future. A Data Scientist will look at the data from many angles, sometimes angles not known earlier.

So, Data Science is primarily used to make decisions and predictions making use of predictive causal analytics, prescriptive analytics (predictive plus decision science) and machine learning.
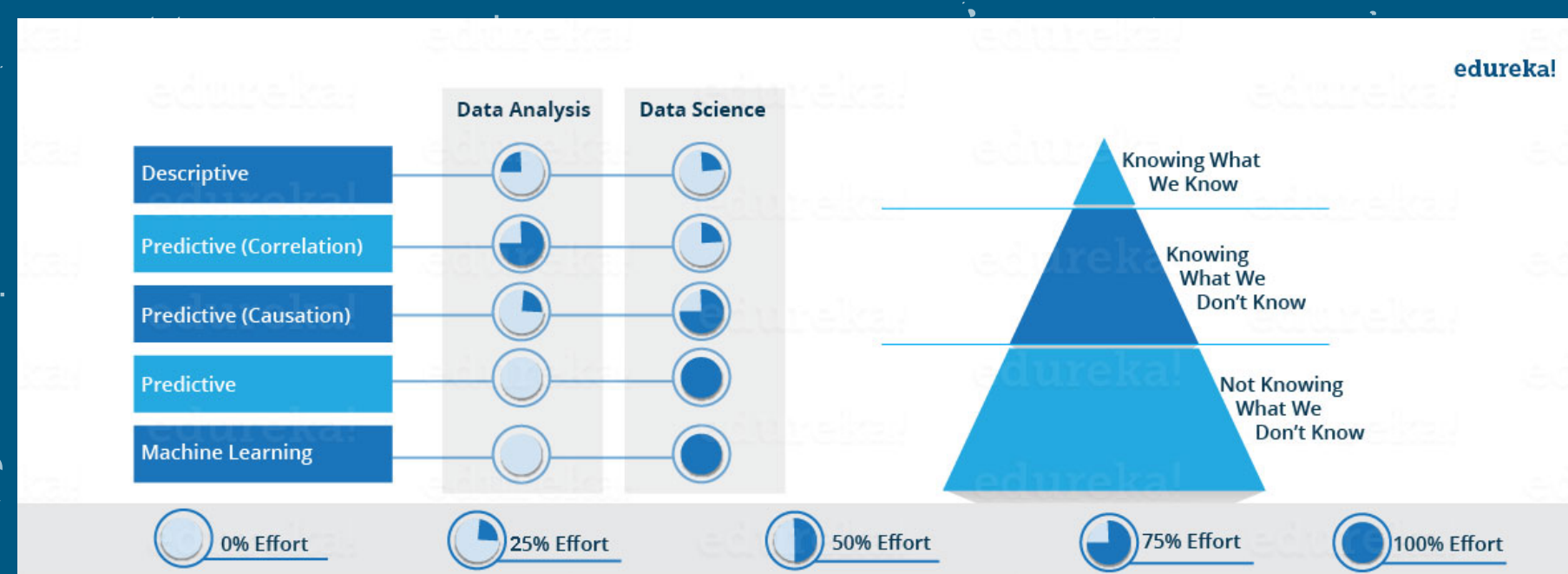

Predictive causal analytics – If you want a model that can predict the possibilities of a particular event in the future, you need to apply predictive causal analytics. Say, if you are providing money on credit, then the probability of customers making future credit payments on time is a matter of concern for you. Here, you can build a model that can perform predictive analytics on the payment history of the customer to predict if the future payments will be on time or not.

Prescriptive analytics: If you want a model that has the intelligence of taking its own decisions and the ability to modify it with dynamic parameters, you certainly need prescriptive analytics for it. This relatively new field is all about providing advice. In other terms, it not only predicts but suggests a range of prescribed actions and associated outcomes.

The best example for this is Google's self-driving car which I had discussed earlier too. The data gathered by vehicles can be used to train self-driving cars. You can run algorithms on this data to bring intelligence to it. This will enable your car to take decisions like when to turn, which path to take, when to slow down or speed up.

Let's see how the proportion of above-described approaches differ for Data Analysis as well as Data Science. As you can see in the image below, Data Analysis includes descriptive analytics and prediction to a certain extent. On the other hand, Data Science is more about Predictive Causal Analytics and Machine Learning.

INTERNSHIP MINUTIAE

STUDENT INTERNSHIP

ROLL NUMBER	NAME	COMPANY
18P31A1229	N.VEERA RAGESWARI	HARMAN(SAMSUNG COMPANY)
18P31A1235	P.USHA SRI	HEXWARE
18P31A1224	S.NANDINI	APISERO
18P31A1203	MOHANA	APISERO
18P31A1203	A.HEMA SANTOSHI	APISERO

Mind Spark

Information Technology

FACULTY PUBLICATIONS

Sl.NO	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	Vol/ Month	Index No UGC/ Scopus
1	Ch V Raghavendran	Coordinate Access System for Live Video Acquisition	Journal of Physics: Conference Series	2394-5125	Vol 1712 December, 2020	Scopus
2	Ch V Raghavendran	Building Time Series Prognostic Models to Analyze the Spread of COVID-19 Pandemic	International Journal of Advanced Science and Technology	2005-4238	Vol. 29 No. 3,sept-20	Scopus
3	Ch V Raghavendran	Predicting Coronary Heart Disease: A Comparison between Machine Learning Model	International Journal of Advanced Science and Technology	2005-4238	Vol. 29 No.3,aug,-2020	Scopus
4	Thiruveedula Srinivasulu	QABA: A privacy model to reduce adversary attacks for cloud storage	Materials today: Proceedings	2214-7853	December, 2020	Scopus
5	R V V N Bheema Rao	Advanced Link Prediction Technique for Social Networking Techniques	Turkish Journal of Computer and Mathematics Education	4169-4175	Vol. 12 No. 12	UGC
6	Kovvuri N Bhargavi	Internet of Things Flood Prediction Architecture using Naive Bayes, Non-Linear Support Vector Machines (SVM) and Multi-Layer Perceptron (MLP) Classifiers	International Journal of Advanced Science and Technology	2005-4238	Vol. 29 No. 03	Springer

WORKSHOPS ATTENDED BY FACULTY

S.No.	Name of the faculty	Name of the Event	Name of the organizer	Dates/ Duration
1	Dr. Ch V Raghavendran	IEEE Sponsored 11th International Conference-CONFLUENCE' 2021	Amity University, Noida	28-01-2021 to 29-01-2021
2	Dr. Regella Venkata Satya Lalitha	International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020)	JNTUK, Kakinada	28-12-2020 to 29-12-2020
3	Dr. Regella Venkata Satya Lalitha	Innovation Ambassador training	MoE's Innovation Cell & AICTE, New Delhi	16-02-2021

Information Technology

FAULTY PUBLICATIONS

Sl. No.	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/ Month	Index No UGC/ Scopus
1	Ch V Raghavendran	Coordinate Access System for Live Video Acquisition	Journal of Physics: Conference Series	2394-5125	Vol 1712 December, 2020	Scopus
2	Thiruveedula Srinivasulu	QABA: A privacy model to reduce adversary attacks for cloud storage	Materials today: Proceedings	2214-7853	December, 2020	Scopus
.3	R V V N Bheema Rao	Advanced Link Prediction Technique for Social Networking Techniques	Turkish Journal of Computer and Mathematics Education	4169-4175	Vol. 12 No. 12	UGC
4	Kovvuri N Bhargavi	Internet of Things Flood Prediction Architecture using Naive Bayes, Non-Linear Support Vector Machines (SVM) and Multi-Layer Perceptron (MLP) Classifiers	International Journal of Advanced Science and Technology	2005-4238	Vol. 29 No. 03	Springer

christmas celebration

aditya collage of engineering and technology christmas celebration held on 11 dec 2021

Surampalem, Andhra Pradesh, India
Aditya collge of engineering & technology
Lat 17.095907°
Long 82.073358°
11/12/21 02:42 PM

Surampalem, Andhra Pradesh, India
Aditya collge of engineering & technology
Lat 17.095907°
Long 82.073358°
11/12/21 02:41 PM

Information Technology

WORKSHOP MINUTIAE

Surampalem, Andhra Pradesh, India
Aditya nagar, Surampalem, Andhra Pradesh 533437, Indi
Lat N 17° 5' 26.81592"
Long E 82° 4' 0.81336"
18/12/21 03:42 PM

APSSDC WORKSHOP on "React JS" for IT 2nd year students

APSSDC Workshop on "AWS Cloud Computing" for IT 3rd year students

SPORTS AND GAME

VOLLEY BALL (BOYS)

KABADDI (BOYS)

Information Technology

KABADDI (GIRLS)

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

17P31A1215
Dharani Gujjula

apps associates

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

Capgemini

17P31A1219
K. Priyanka Reddy

17P31A1221
Karri Bhargavi Deepthi

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Information Technology

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

Cognizant

17P31A1221
Karri Bhargavi Deepthi

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

Covalensedigital

17P31A1218
J.Pranavi

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY
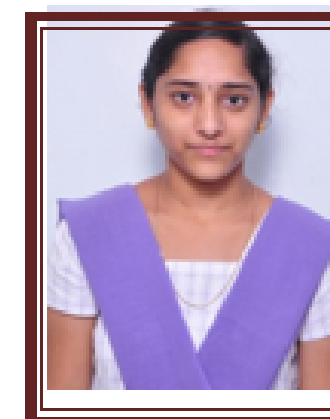

Information Technology

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

17P31A1219
K. Priyanka Reddy

17P31A1223
Karri Navya Madhuri

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF IT & MCA

CONGRATULATIONS ON YOUR SELECTION

17P31A1219
K. Priyanka Reddy

17P31A1223
Karri Navya Madhuri

Principal, HODs & Staff
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Information Technology

Seminar on AI Transforming Our Future

Mind Spark

WORKSHOP ON AMAZON WEB SERVICES(AWS)