AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada, Accredited by NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Certificate Course
on

DATA SCIENCE WORKFLOW AND TOOLS
from 4th November 2019 to 9th November 2019

ORGANIZED BY
DEPT. OF COMPUTER SCIENCE ENGINEERING
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM (V), VISAKHAPATNAM-531113

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.

It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

The Computer Science & Engineering department was established with B.Tech Program in 1999 with intake of 60 students and this was increased to 120 students in 2007 and increased to 180 students in 2012. The Post graduate Program M.Tech with C.S.E was started in 2005 with intake of 18 Students and this was increased to 24 students in 2012. The Computer Science & Engineering department was accredited by NBA in 2009 and 2014. Department mission is to be Instrumental in the field of computer science &

engineering by providing high quality education and continues improvement process of the program. The department has full fledged faculty with four professors with Ph.D and 40 staff members with experience in teaching and industry, which leads the skill students to get employment in the market. . The department encourages the faculty members and the students to participate paper presentations, seminars, workshops and National, International conferences and research activities. The department is well equipped laboratories and the computers have sophisticated development software tools. The department provides training to its students in advanced technologies like JAVA, WEB TECHNOLOGIES,.NET, PHP, Data Warehousing, Data Mining tools and Data storage systems as a supplement to the curriculum to enhance the employability of students. Our faculty members are the members of Computer Society of India, ISTE, IEEE.

ABOUT COURSE

Data scientist is one of the best suited professions to thrive this century. It is digital, programming-oriented, and analytical. Therefore, it comes as no surprise that the demand for data scientists has been surging in the job marketplace.

However, supply has been very limited. It is difficult to acquire the skills necessary to be hired as a data scientist dedicated to developing novel data science theories, algorithms, and methods to solve challenging problems in business and society. The conference provides a venue for innovative data science studies that solve business and societal problems from the lens of data mining and machine learning, ranging from marketing and finance problems to health care, cyber security, and social network problems. Studies on theoretical and methodological foundations to data science, such as optimization for machine learning and new algorithms for data mining, are also welcome.

TOPICS TO BE COVERED

Day 1   Introduction to Data Science
Day 2   Machine Learning
Day 3   Algorithms used in Machine Learning
Day 4   Statistical Foundations for Data Science
Day 5   Scientific Computing
Day 6   Optimization Techniques

For Registration please contact Mr. S.V.R.Vara Prasad, Assistant Professor, CSE.

CHIEF PATRON
Smt. M. Gnaneswari
President
Avanthi Institute of Engineering and Technology

PATRON
Dr. C P V N J Mohan Rao
Principal,
Avanthi Institute Of Engineering and Technology

CHAIRMAN
P.M.Manohar
Head of the Department
Computer Science & Engineering

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Dt: 28-10- 2019.

CIRCULAR

On behalf of the Department of Computer Science and Engineering AIET is conducting one week certificate course on **"Data Science Workflow and Tools"** during 4th November 2019 to 9th November 2019 for all the students of II & IV Year of Computer Science and Engineering Department.I advise to all the students of II & IV Year CSE to enroll your details for above course. For more details you may contact course Coordinator Mr.S.V.R.Varaprasad, Assistant Professor, CSE.

Resource Person 1: Dr.S.Jhansi Rani

      Assistant Professor

      A.U,Visakhapatnam

    2: Dr.G.Sowjanya

      Professor

      Information Technology, JNTUV.

P.M.Manohar

Head of the Department

Computer Science and Engineering

Avanthi Institute of Engg. & Technology
Tamaram, Makavarapalem Md.,
Visakhapatnam District, PIN-531113

Copy to: Principal, AIET

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Data Science work flow and tools

Duration : 4th Nov 2019 to 9th Nov 2019

SYLLABUS

DAY 1 : Introduction to data science in Python

DAY 2 : Introduction to Machine learning

DAY 3 : Introduction to Algorithms, Algorithms used in Machine learning

DAY : Statistical Foundations for D.S

DAY 5 : Scientific Computing

DAY 6 : Optimization Techniques

S.V.R.Varaprasad

Coordinator

P.M.Manohar

Head of the Department

Computer Science Engineering
Avanthi Institute of Engg & Technology,
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Data Science work flow and tools

Duration: 4th Nov 2019 to 9th Nov 2019

SCHEDULE

Day-1 (04/11/2019)

09:00 to 10:00	Inaugural Session
10:00 to 12:00	Introduction to data science in Python
12:00 to 01:00	Lunch Break
01:00 to 04:00	Introduction to data science in Python

Day-2 (05/11/2019)

09:00 to 12:00	Introduction to Machine learning
12:00 to 01:00	Lunch Break
01:00 to 04:00	Explanation to Machine learning

Day-3(06/11/2019)

09:00 to 12:00	Introduction to Algorithms
12:00 to 01:00	Lunch Break
01:00 to 04:00	Explanation to Algorithms used in Machine learning

Day-4(07/11/2019)

09:00 to 12:00	Statistical Foundations for D.S
12:00 to 01:00	Lunch Break
01:00 to 04:00	Describe Statistical Foundations for D.S

Day-5(08/11/2019)

09:00 to 12:00   Introduction to Scientific Computing

12:00 to 01:00   Lunch Break

01:00 to 04:00   Describe Scientific Computing

Day-6(09/11/2019)

09:00 to 12:00   Optimization Techniques

12:00 to 01:00   Lunch

01:00 to 04:00   Optimization Techniques

Coordinator

Head of the Department
Computer Science and Engineering
Avanthi Institute of Engg & Technology,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Data Science Workflow and Tools

Date : 4/11/2019 To 9/11/2019

IV & II B.Tech STUDENTS ATTENDANCE LIST

S.NO	ROLL.NO	NAME OF THE STUDENT	Day 1	Day 2	Da 3	Day 4	Day 5	Day 6
1	16811A0501	ABRAHAM SHARON LEELA	✓	✓	✓	✓	✓	✓
2	16811A0502	ADHIKARI SWATHI	✓	✓	✓	✓	✓	X
3	16811A0503	AKULA LAVANYA	✓	✓	✓	✓	✓	✓
4	16811A0504	ANNAPAREDDY DALI DEEPIKA	✓	✓	✓	✓	✓	✓
5	16811A0505	BADIREDDY SURENDRA	✓	✓	✓	✓	✓	✓
6	16811A0506	BANDARU SARASWATHI	✓	✓	✓	✓	✓	✓
7	16811A0507	BEESETTI YUVA KIRAN SAI	✓	✓	X	✓	✓	✓
8	16811A0508	BHEEMISETTY LAVANYA	✓	✓	✓	✓	✓	✓
9	16811A0509	BHEEMISETTY RAMYA	X	✓	✓	✓	✓	✓
10	16811A0510	BOBBADI SIVA GOWRI	✓	✓	✓	✓	✓	✓
11	16811A0511	BODDEDA SIVA GOPI LAKSHMI	✓	✓	✓	✓	✓	✓
12	16811A0512	BODDU JAYA MADHURI	✓	✓	✓	✓	✓	✓
13	16811A0513	BOLEM SAIKUMAR	✓	✓	✓	✓	✓	✓
14	16811A0514	BOTCHA DURGA	✓	✓	✓	✓	✓	✓
15	16811A0515	DARAKONDA VASANTHA	✓	✓	✓	✓	X	✓
16	16811A0516	DEVARAPALLI NAGA	✓	✓	✓	✓	✓	✓
17	16811A0517	DEVARASETTI JAGADESWAR	✓	✓	✓	✓	✓	✓

18	16811A0518	DHARMALA SAI GURUDATTA	✓	✓	✓	✓	✓	✓
19	16811A0519	DIMILI RAGHURAM	✓	✓	✓	✓	✓	✗
20	16811A0520	DODDI HARIKA RAMANI	✓	✓		✓	✓	✓
21	16811A0521	DWARAPUREDDY ANITHA	✓	✓	✓	✓	✓	✓
22	16811A0522	ELLAPU UPENDRA KUMAR	✓	✓	✓	✓	✓	✓
23	16811A0523	GANDETI SRINIVASA RAO	✓	✓	✓	✓	✓	✓
24	16811A0524	GANDIPADALA GANGADHAR	✓	✓	✓	✓	✓	✓
25	16811A0525	GANGALA SRAVANI	✓	✓	✓		✓	✓
26	16811A0526	GANGIREDDY GOUTHAM	✓	✓	✓	✓		✓
27	16811A0527	GINNI JYOTHISHMATHI	✓	✓	✗	✓	✓	✓
28	16811A0528	GOGADA SATISH NAIDU	✓	✓	✓	✓	✓	✓
29	16811A0529	GORLE PADMA	✓	✓	✓	✓	✓	✓
30	16811A0530	GUDIVADA EEPSITHA JAHNAVI	✓	✓	✓	✓	✓	✓
31	16811A0531	GUMMIDI INDRAVATHI	✓	✓	✓			✓
32	16811A0532	JETTI HEMANTHI	✓	✓	✓	✓	✓	✓
33	16811A0533	KAVULURI MANASA SRILAXMI	✓	✓	✓	✓	✓	✓
34	16811A0534	KILAPARTHI SOMESWARA RAO	✓	✓	✓	✓	✓	✓
35	16811A0535	KILLADA LEELA PRASAD	✓	✓	✓	✓	✓	✓
36	16811A0536	KOLAGANI GIRISHMA	✓	✓	✓	✓	✗	✓
37	16811A0537	KONA VARMA	✓	✓	✓	✓	✓	✓
38	16811A0538	KOTIPALLI SWAMY	✓	✓	✓	✓	✓	✓
39	16811A0539	KUNCHA GANGA BHAVANI	✓	✓	✗	✓	✓	✓
40	16811A0540	KUNDRAPU SIVAKRISHNA	✓	✓	✓	✓	✓	✓
41	16811A0541	KUPIREDDY SRAVANI	✓	✓	✓	✓	✓	✓
42	16811A0542	KUPPILI SANDEEP KUMAR	✓	✓	✓	✓	✓	✓

43	16811A0543	LAKAMSANI DURGA SAI ANIL	✓	✓	✓	✓	✓	✓
44	16811A0544	MADEM UMADEVI	✓	✓	✓	✓	✓	✓
45	16811A0545	MALLA MRUDULANKITHA	✓	✓	✓	✓	✓	✓
46	16811A0546	MATSA BHAGYA LAKSHMI	✓	✓	✓	✓	✓	✓
47	16811A0547	MEDESETTI PAVANI	✓	✓	✓	✓	✓	✗
48	16811A0548	MIDATHANA SITARAMA RAJU	✓	✓	✓	✓	✓	✓
49	16811A0549	MINDI SAI VENKATA	✓	✓	✓	✓	✓	✓
50	16811A0550	MISRO MONALI	✓	✓	✓	✓	✓	✓
51	16811A0551	MODALAVALASA MADHU	✓	✓	✓	✓	✓	✓
52	16811A0552	MOHAMMAD GULE AFSHA	✓	✓	✓	✓	✓	✓
53	16811A0553	NADIPINTI DURGA MOHAN	✓	✓	✗	✓	✓	✓
54	16811A0554	NAGUBILLI SANTHOSHILAKSHMI	✓	✓	✓	✓	✓	
55	16811A0555	NAKKA GANESHDURGA	✓	✓	✓	✓	✓	✓
56	16811A0556	NALLALA RAMU	✓	✓	✓	✓	✓	✓
57	16811A0557	NALLALA SATEESWARARAO	✓	✓	✓	✓	✓	✓
58	16811A0558	PACHCHIKURA LIKITHA	✓	✓	✓	✓	✓	✓
59	16811A0559	PACHIGOLLA SRINIVASU	✓	✓	✓	✓	✓	✓
60	16811A0560	PANDE GIRINDHAR RAO	✓	✗	✓	✓	✓	✓
61	16811A0561	PAPPU KRUTHIKA	✓	✓	✓	✓	✓	✓
62	16811A0562	PATCHIGOLLA LATHA	✓	✓	✓	✓	✓	✓
63	16811A0563	PATHALA PRASAD	✓	✓	✓	✓	✗	✓
64	16811A0564	PATNANA KISAN KUMAR	✓	✓	✓	✓	✓	✓
65	16811A0566	PEDADA NINEESHA	✓	✓	✓	✓	✓	✓
66	16811A0567	PEDIREDLA SUSMITHA	✓	✓	✓	✓	✓	✓

67	16811A0568	PERAPU VARA POORNIMA	✓	✓	✓	✓	✓	✓
68	16811A0569	PITLA CHANDRIKA	✓	✓	✓	✓	✓	✓
69	16811A0570	PITTA HARISH	✓	✓	✓	✓	✓	✓
70	16811A0571	PITTA SUNIL KUMAR	✓	✓	✓	✓	✓	✓
71	16811A0572	PRASADAM SIVA KRISHNA	✓	✓	✓	✓	✓	✓
72	16811A0573	PUDI GANESH	✓	✗	✓	✓	✓	✗
73	16811A0575	RAPETI HEMANTH	✓	✓	✓	✓	✓	✓
74	16811A0576	RAVI SRI RAM	✓	✓	✓	✓	✓	✓
75	16811A0577	REDDY SRIKANTH	✓	✓	✓	✓	✓	✓
76	16811A0578	SALUMURI DILIP KUMAR	✓	✓	✓	✓	✓	✓
77	16811A0579	SAMMETLA RAVI KARUN	✓	✓	✓	✓	✓	✓
78	16811A0580	SANAPALA TEJASWARI	✓	✓	✓	✓	✓	✓
79	16811A0581	SHEIK BADIRUDDIN	✓	✓	✓	✓	✓	✓
80	16811A0582	THIMMAPATRUNI BHAVANI	✓	✓	✓	✓	✓	✓
81	16811A0583	TONDAPU DHEERAJ REDDY	✓	✓	✓	✓	✓	✓
82	16811A0584	VARRE PRIYA MAHALAXMI	✓	✓	✗	✓	✓	✓
83	16811A0585	VEESAM JAHNAVI	✓	✓	✓	✓	✓	✓
84	16811A0586	VEGI LOKESH	✓	✓	✓	✓	✓	✓
85	16811A0587	VELAGA GAYATHRI	✗	✓	✓	✓	✓	✓
86	16811A0588	VONTEDDU NAGA VENKATA DEEPAK	✓	✓	✓	✓	✗	✓
87	16811A0589	VUPPALA SRAVANI	✓	✓	✓	✓	✓	✓
88	16811A0590	YELLAPU MANI KUMAR	✓	✓	✓	✓	✓	✓
89	17815A0501	KOILADA ROHIT GOVIND	✓	✓	✓	✓	✓	✓
90	17815A0502	MOTURU YAMINI NAGA DEVI	✓	✓	✓	✓	✓	✓

91	17815A0503	CHINTALA LOKESH	✓	✓	✓	✓	✓	✓
92	18811A0501	BAILAPUDI PADMA	✗	✓	✓	✓	✓	✓
93	18811A0502	BHANUMATHI PALAPARTHI	✓	✓	✓	✓	✓	✓
94	18811A0503	BODDAPU PRASAD	✓	✓	✓	✓	✓	✓
95	18811A0504	BODDEDA LOKESH	✓	✓	✓	✓	✓	✓
96	18811A0505	BOINA TEJA	✓	✓	✓	✓	✓	✓
97	18811A0506	BONTHU PRANAY	✓	✗	✓	✓	✓	✓
98	18811A0507	DACHEPALLI VENKATA VIJAYALAKSHMI	✓	✓	✓	✓	✓	✓
99	18811A0508	DARAPUREDDY VANI VASUNDHARA	✓	✓	✓	✓	✓	✓
100	18811A0509	DIVYA BISAI	✓	✓	✗	✓	✓	✓
101	18811A0510	DUGGINENI UMESH CHANDRA	✓	✓	✓	✓	✓	✓
102	18811A0511	DWARAM SUSHMITHA YAMINI	✓	✓	✓	✓	✓	✓
103	18811A0512	GANDI BHARDWAZ NAIDU	✓	✓	✓	✓	✓	✓
104	18811A0513	GOGINENI ALEKHYA	✓	✓	✓	✓	✓	✓
105	18811A0514	GOKADA PRASANTH KUMAR	✓	✓	✓	✓	✓	✓
106	18811A0515	GOLTI SAI KOTI MEGHANA	✓	✓	✓	✓	✓	✓
107	18811A0516	GOPALADAS VASANTHI	✓	✓	✓	✓	✓	✓
108	18811A0518	GORLA ABHISHEK	✓	✓	✓	✓	✓	✓
109	18811A0519	GORLE SRI SATYA	✓	✓	✓	✓	✓	✓
110	18811A0521	GURE CHANDRIKA	✓	✓	✓	✓	✓	✓
111	18811A0522	GURRAM BHARGAVI	✓	✓	✓	✓	✓	✓
112	18811A0523	GURUCHARANA KRISHNA LAHARI	✓	✓	✓	✓	✓	✓
113	18811A0524	IMANDI RUBIN PRINCE	✓	✓	✓	✓	✓	✓
114	18811A0526	K VASANTHA	✓	✓	✓	✓	✓	✗
115	18811A0527	KADALI NISCHALA DEVI	✓	✓	✓	✓	✓	✓
116	18811A0528	KADAVALA SAI PRIYA	✓	✓	✓	✓	✓	✓
117	18811A0530	KANTA RUCHITHA	✓	✓	✓	✓	✓	✓

118	18811A0531	KARAKAVALASA DHANALAKSHMI	✓	✓	✓	✓	✓	✓
119	18811A0533	KEERTHI TEJASWI	✓	✓	✓	✓	✓	✓
120	18811A0534	KILAPARTHI DURGA PRASAD	✓	✓	✓	✓	✓	✓
121	18811A0536	KOTHAKOTA MAHESWARI	✓	✓	✓	✓	✓	✓
122	18811A0537	KOTTE SAI GANESH	✓	✓	✓	✓	✓	✓
123	18811A0538	LAKKOJU SRAVAN KUMAR	✓	✓	✓	✓	✓	✓
124	18811A0540	MADUGULA JAGAN MOHAN SATYA DURGA PRASAD	X	✓	X	✓	X	✓
125	18811A0541	MAJJI SAI LAKSHMI	✓	X	✓	✓	✓	✓
126	18811A0542	MAJJI TULASI	✓	✓	✓	✓	✓	✓
127	18811A0543	MARISETTI MEENAKSHI	✓	✓	✓	✓	✓	X
128	18811A0544	MEDISETTI JANAKI	✓	✓	✓	✓	✓	✓
129	18811A0546	PATHAKAMUDI SHARMILA	✓	✓	✓	✓	✓	✓
130	18811A0547	PATHALA NAGENDRA	✓	✓	✓	✓	✓	✓
131	18811A0549	PILLA BHARGAVI	✓	✓	✓	✓	✓	✓
132	18811A0551	POTHAMSETTI MANIKANTA	✓	✓	✓	✓	✓	✓

Coordinator
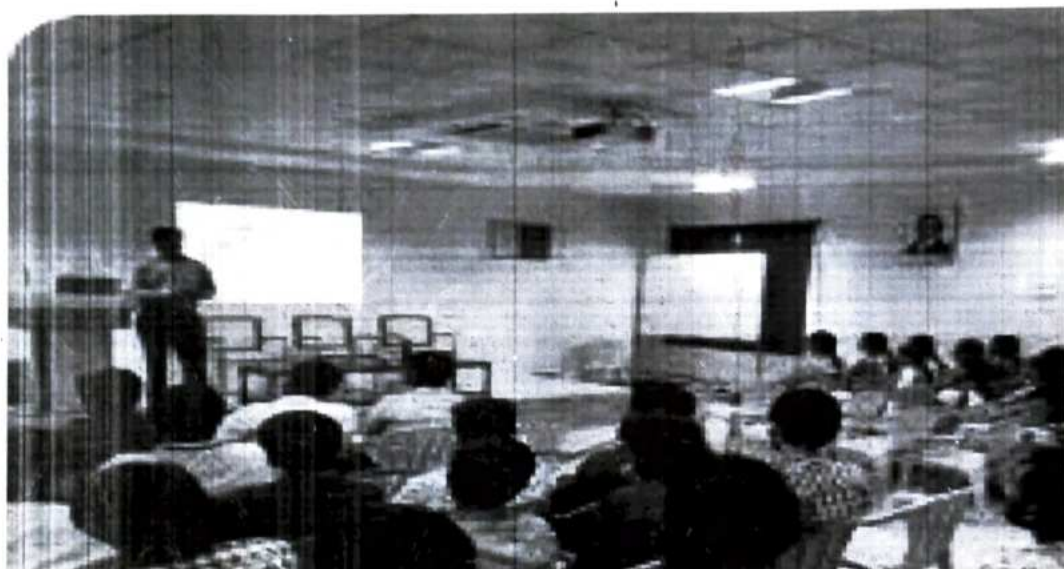
HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Course On

Data Science Workflow and Tools

Dated on: 04/11/2019

COORDINATOR

HOD

Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113

AVANTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram (V), Makavarapalem (M), Visakhapatnam Dist. 531113.
(Approved by AICTE, Accredited by NAAC, Permanently Affiliated to JNTU Kakinada)

Certificate of Participation

This is to certify that Mr./Ms. _____of _____has participated in the Certificate Course entitled on **DATA SCIENCE WORKFLOW AND TOOLS** during from 4TH NOV 2019 to 9TH NOV 2019 was organized by the Department of COMPUTER SCIENCE AND ENGINEEERING at Avanthi Institute Of Engineering and Technology

Coordinator   **HOD**   **Principal**

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Department of Computer Science and Engineering

Date: 11-11-2019

BRIEF REPORT

Department of Computer Science and Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on **"Data Science workflow and tools"** during 4-11-2019 to 9-11-2019.

We had **Resource Person: Dr.S.Jhansi Rani, Assistant Professor, A.U** was explained each and every details about data science workflow and tools. He extensively explained about Data science is defined, unsurprisingly, as "the study of data." That certainly narrows it down! Fortunately, there's more to it. The purpose of data science is to gain knowledge and insights from all kinds of data, structured or unstructured. The process includes creating and implementing ways of recording, analyzing, and storing data to glean useful information effectively. Predictive segmentation removes the need for all of the manual work by automatically identifying and analyzing the valuable or high-potential audience segments that need to be targeted. However, as an individual capability, it does not help in determining the right experience that should be tailored for each identified audience segment.Statistical Foundations of Data Science gives a thorough introduction to commonly used statistical models, contemporary statistical machine learning techniques and algorithms, along with their mathematical insights and statistical theories.

Coordinator

Head of the Department

Computer Science and Engineering
Avanthi Inter Science Engg & Technology
Tama ..., Makavarapalem Md
Visakhapatnam District, Pin-531113