

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTU GV, Vizianagaram,
Accredited By NAAC and Recognized under 2(f) & 12 (b) by UGC, New
Delhi)

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



*Certificate Course
on*

ARTIFICIAL INTELLIGENCE

From 11th SEP 2023 to 15th SEP 2023



ORGANIZED BY

**DEPT. OF COMPUTER SCIENCE ENGINEERING
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
TAMARAM (V), MAKAVARAPALEM (M), ANAKAPALLI-531113**

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board. Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 25 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

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 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 Department of COMPUTER SCIENCE ENGINEERING was established in the year 2001 along with the MECHANICAL, ECE and CSE departments. The department has an intake of 60 students. Commencing the academic year 2011, a post-graduate course in Power Electronics and 2014 in Power Systems was started. The department has full fledged laboratories, workshops and P.G. labs. The department is staffed with qualified, experienced and dedicated members who engage in research activities.. The department with active support from the management is aiming to expand its research activities and industrial consultancies.

ABOUT COURSE

ARTIFICIAL INTELLIGENCE represent a transformative step toward sustainable mobility, combining the efficiency of electric vehicles with the reliability of conventional internal combustion engines. This five-day workshop, **ARTIFICIAL**

INTELLIGENCE is designed to provide participants with a comprehensive understanding of the fundamentals, components, and future advancements in AI .

TOPICS TO BE COVERED

Day 1: Introduction to AI and its history.

Day 2: Machine Learning Fundamentals

Day 3: Deep Learning and Neural Networks

Day 4: Computer Vision and Natural Language Processing (NLP)

Day 5: Advanced AI Topics & Real-World Applications

For any further information Contact Mr. M.Sagar Assistant Professor, CSE, and Mr. K.Varaprasad Assistant Professor, CSE.

CHIEF PATRON

Smt.M.Ganeswari
President, Avanathi Educational Society

PATRON

Dr. C P V N J Mohan Rao
Principal,
Avanathi Institute Of Engineering And Technology

CHAIRMAN

Dr.U.Nanaji
Head of the Department
Computer Science Engineering

COORDINATORS

Mr M.Sagar
Asst. Professor,

Mr.K.Varaprasad
Asst. Professor



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Dt. 08-08-2023.

CIRCULAR

A Course on **ARTIFICIAL INTELLIGENCE** for all the IV Year students of DEPARTMENT OF COMPUTER SCIENCE ENGINEERING is scheduled from 11th Sep 2023 to 15th Sep 2023. All the students should attend the course without fail. For any further information Contact Mr. M.Sagar, Assistant Professor, CSE & Mr.K.Varaprasad Assistant Professor, CSE Department may be consulted.

Resource Person :

1. Dr.Sudhakar Yadav
Associate Professor,
CBIT, Hyderabad
2. Ch.Raj Kumar
Associate Professor,
Gayatri College of Science & Management
Srikakulam

Dr.U.Nanaji
Head of the Department
Computer Science Engineering

Copy to: Principal, AIET

M.CHIRANJEEVI M.Tech
Associate Professor & HOD
Department Of Computer Science & Engineering
Avanthi Institute of Engineering & Technology
Tamaram (Vi), Makavarapalem (Md),
Narsipatnam, Anakapalli (Dist.), Pin: 531113
Ph : 8008270027



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

ARTIFICIAL INTELLIGENCE

Duration: 11th SEP 2023 to 15th SEP 2023

SYLLABUS

Day 1: Introduction to AI & Machine Learning Basics.

Day 2: Machine Learning Algorithms & Model Evaluation.

Day 3: Deep Learning & Neural Networks

Day 4: Natural Language Processing (NLP) & AI Applications

Day 5: AI Deployment & Final Project.

COORDINATOR

HOD

M.CHIRANJEEVI M.Tech
Associate Professor & HOD
Department Of Computer Science & Engineering
Avanthi Institute of Engineering & Technology
Tamaram (Vi), Makavarapalem (Md),
Narsipatnam, Anakapalli (Dist.), Pin: 531113
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING ARTIFICIAL INTELLIGENCE

SCHEDULE

Duration: 21st AUG 2023 to 26th AUG 2023

DAY/DATE	Live Session - 1 09.00AM to 12.30 PM	Live Session - 2 1 PM to 4 PM
Monday 11/09/2023	<p>Introduction to AI and its history. AI vs Machine Learning (ML) vs Deep Learning (DL)</p> <p>Real-World AI Applications (Healthcare, Finance, Robotics, etc.) Mathematical Foundations of AI</p> <p>Linear Algebra (Vectors, Matrices, Eigenvalues)</p> <p>Probability and Statistics in AI</p> <p>Gradient Descent and Optimization Basics</p>	<p>Machine Learning Fundamentals</p> <p>Supervised vs Unsupervised Learning</p> <p>Regression vs Classification Problems</p> <p>Overfitting, Underfitting, and Bias-Variance Tradeoff</p> <p>Hands-on Session:</p> <p>Setting up Python Environment (numpy, pandas, scikit-learn)</p> <p>Implementing Linear Regression from Scratch</p>
Tuesday 12/09/2023	<p>Supervised Learning Techniques Decision Trees & Random Forests</p> <p>Support Vector Machines (SVM) k-Nearest Neighbors (k-NN) Unsupervised Learning Techniques</p> <p>K-Means Clustering</p> <p>Principal Component Analysis (PCA)</p> <p>Association Rule Learning (Apriori, FP-Growth)</p>	<p>Model Evaluation & Hyperparameter Tuning</p> <p>Confusion Matrix, Precision, Recall, F1-score</p> <p>Cross-Validation Techniques</p> <p>Grid Search & Random Search for Hyperparameter Tuning</p> <p>Hands-on Session:</p> <p>Implementing Decision Trees & k-Means Clustering</p> <p>Hyperparameter Tuning with GridSearchCV</p>
Wednesday 13/09/2023	<p>Introduction to Deep Learning Neural Networks and their Architecture</p> <p>Activation Functions (ReLU, Sigmoid, Softmax)</p> <p>Loss Functions and Backpropagation</p>	<p>Convolutional Neural Networks (CNNs) Basics of CNNs for Image Processing Convolution, Pooling, and Fully Connected Layers</p> <p>Transfer Learning (Using Pretrained Models like VGG, ResNet)</p> <p>Hands-on Session: Implementing a CNN for Image</p>



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	<p>Deep Learning Frameworks</p> <p>Introduction to TensorFlow & PyTorch</p> <p>Building a Simple Neural Network with TensorFlow</p>	<p>Classification</p> <p>Training a Model on MNIST Dataset</p>
<p>Thursday 14/09/2023</p>	<p>Introduction to NLP</p> <p>Tokenization, Stemming, Lemmatization</p> <p>Bag of Words & TF-IDF</p> <p>Named Entity Recognition (NER)</p> <p>Deep Learning for NLP</p> <p>Word Embeddings (Word2Vec, GloVe)</p> <p>Recurrent Neural Networks (RNNs) & Long Short-Term Memory (LSTMs)</p>	<p>AI in Real-World Applications</p> <p>AI in Healthcare, Finance, and Autonomous Vehicles</p> <p>Ethics in AI & Bias in Machine Learning Models</p> <p>Hands-on Session:</p> <p>Sentiment Analysis using NLP</p> <p>Text Classification using LSTMs</p>
<p>Friday 15/09/2023</p>	<p>Model Deployment Strategies</p> <p>Saving & Loading Models (pickle, joblib, TensorFlow SavedModel)</p> <p>Deploying AI Models as REST APIs (Flask/FastAPI)</p> <p>AI in Cloud (Google AI, AWS SageMaker)</p> <p>MLOps & CI/CD for AI Models</p> <p>Model Monitoring & Versioning</p> <p>Automating Model Training Pipelines</p>	<p>Final AI Capstone Project</p> <p>End-to-End AI Project Development</p> <p>Presentation and Feedback</p> <p>Hands-on Session:</p> <p>Deploying a Machine Learning Model as a Web API</p> <p>Presenting a Final AI Project</p>

COORDINATOR

HOD

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

ARTIFICIAL INTELLIGENCE

From 11th SEP 2023 to 15th SEP 2023

IV YEAR STUDENTS ATTENDANCE

S.N	ROLL NO.	NAME OF THE STUDENT	11/09/23	12/09/23	13/09/23	14/09/23	15/09/23
1	20811A0501	Adnala Manju	✓	✓	✓	✓	✓
2	20811A0503	Vijaykumar Ampolu	✓	✓	✓	✓	✓
3	20811A0504	Sree Charan Anala	✓	X	✓	✓	✓
4	20811A0505	Harikishore Anem	✓	✓	✓	X	✓
5	20811A0506	Annepu Pavan Kalyan	✓	✓	✓	✓	✓
6	20811A0507	Avala Raja	✓	✓	✓	✓	✓
7	20811A0508	Barre Elisha Raju	✓	✓	✓	✓	✓
8	20811A0509	Satish Kumar Barri	✓	✓	✓	✓	✓
9	20811A0510	Kumar Bayana	✓	✓	✓	✓	✓
10	20811A0511	Beera Anand Babu	X	✓	✓	✓	✓
11	20811A0512	Pavani Bellapukonda	✓	✓	✓	✓	✓

12	20811A0513	Prudhvi Ganesh	✓	✓	✓	✓	✓
13	20811A0514	Ramya Ganga Bobbadi	✓	✗	✓	✓	✓
14	20811A0515	Alekhya Devaki Boddeda	✓	✓	✓	✗	✓
15	20811A0516	Gowri Boddeda	✓	✓	✓	✓	✓
16	20811A0517	Boddeda Yeswanth	✓	✓	✓	✓	✗
17	20811A0518	Bhanuprasad Boddu	✓	✓	✓	✓	✓
18	20811A0519	Bolem Guna Sekhar	✗	✓	✓	✓	✓
19	20811A0520	Bongu Pujitha	✓	✓	✓	✓	✓
20	20811A0521	Manikyam Madhavi	✓	✓	✓	✓	✓
21	20811A0522	Durgaprasad Bugatha	✓	✗	✓	✓	✓
22	20811A0523	Bhargav Chadalavada	✓	✓	✓	✓	✓
23	20811A0524	Nitish Challa	✓	✓	✓	✓	✓
24	20811A0525	Chandu Chebolu	✓	✓	✓	✓	✓
25	20811A0526	Chidipothu Mohanarao	✓	✓	✓	✓	✓
26	20811A0527	Hema Varalakshmi Chikkala	✓	✓	✗	✓	✓
27	20811A0528	Sarada Dammu	✓	✓	✓	✓	✓
28	20811A0529	Ganesh Deshmuk	✓	✓	✓	✓	✗
29	20811A0530	Rushma Devara	✓	✓	✓	✓	✓
30	20811A0532	Gayathri Doddi	✓	✓	✓	✓	✓

31	20811A0533	Dwarapudi Prasanth	✓	✓	✓	✓	x
32	20811A0534	Gandepalli Deepthi	✓	x	✓	✓	✓
33	20811A0536	Ashritha Geddada	✓	✓	✓	x	✓
34	20811A0537	Monish Godaba	✓	x	✓	x	✓
35	20811A0538	Gorle Durga Prasad	✓	✓	✓	✓	x
36	20811A0539	Sai Chaitanya Gorle	x	✓	✓	✓	✓
37	20811A0540	Gudala Samuel	✓	x	✓	✓	✓
38	20811A0541	Ippili Sravani	✓	✓	✓	x	✓
39	20811A0542	Jetti Lakshmi	✓	x	✓	✓	✓
40	20811A0543	Jonnada Lakshmi Manoj	✓	✓	x	✓	✓
41	20811A0544	Indali Ramalakshmi	✓	✓	✓	x	✓
42	20811A0545	Kandregula Jyoshna	✓	✓	x	✓	✓
43	20811A0546	Karanam Poojitha	✓	✓	x	✓	✓
44	20811A0547	Divya Karri	✓	✓	x	✓	✓
45	20811A0548	Naresh Kasimkota	x	✓	✓	✓	✓
46	20811A0549	Vamsi Katta	✓	✓	✓	x	✓
47	20811A0550	Kethavarapu Deepika	✓	✓	x	✓	✓
48	20811A0551	Manasa Kona	✓	x	✓	✓	✓

49	20811A0552	Koppiseti Anjali	✓	✓	✓	✗	✓
50	20811A0553	K. N. D. Navya Sri	✓	✓	✗	✓	✓
51	20811A0554	Kota Naga Satyaveni	✓	✓	✓	✗	✓
52	20811A0555	Bharathi Kubireddy	✗	✓	✓	✓	✓
53	20811A0556	Kuriti Mohini	✓	✗	✓	✓	✓
54	20811A0557	Kusumanchi Sri Ram	✗	✓	✓	✓	✓
55	20811A0558	Madduri Nagendra Reddy	✓	✗	✓	✓	✓
56	20811A0559	Majji Sai Chakravarthi	✓	✓	✓	✗	✓
57	20811A0560	Malla Chandu	✓	✓	✓	✗	✓
58	20811A0561	Nikitha M	✓	✓	✓	✓	✗
59	20811A0562	Rohit Vinay	✓	✓	✓	✓	✗
60	20811A0563	Sai Narendra Marrapu	✓	✗	✓	✓	✓
61	20811A0564	Nikhil Medepalli	✓	✗	✓	✓	✓
62	20811A0565	Narasimha Misro	✗	✓	✓	✓	✓
63	20811A0566	Nadakuditi Chandrika	✗	✓	✓	✓	✓
64	20811A0567	Nakka Gowtham	✓	✓	✗	✓	✓
65	20811A0568	Nanepalli Vamsi	✓	✓	✗	✓	✓
66	20811A0569	Vasanthi Nanepalli	✓	✗	✓	✓	✓
67	20811A0570	Naredla Anji Reddy	✗	✓	✓	✓	✓

68	20811A0571	Nakkina Naveen	✓	✓	✓	✓	✗
69	20811A0573	Oyeboyana Shyam Tarun Teja	✓	✓	✓	✓	✓
70	20811A0574	Padala Vaishnavi	✗	✓	✓	✓	✓
71	20811A0575	Palateru Sravya	✓	✓	✓	✓	✓
72	20811A0576	Bhanu Prasad Pasagadugula	✓	✓	✓	✗	✓
73	20811A0577	Deepika Pedapati	✗	✓	✓	✓	✓
74	20811A0578	Surya Chandra Prakash Pedapati	✓	✓	✓	✓	✓
75	20811A0579	Gonthina Akhila	✓	✓	✓	✓	✓
76	20811A0580	N V Renuka Prasad Peddiboyina	✓	✗	✓	✓	✓
77	20811A0581	Pedisetti Lavanya	✗	✓	✗	✓	✓
78	20811A0582	Peela Niveditha	✓	✓	✓	✓	✗
79	20811A0583	Saisumanth Pinnaka	✓	✓	✓	✓	✓
80	20811A0584	Pinninti Hemanth Kumar	✓	✓	✓	✓	✓
81	20811A0585	Sandhya Pithani	✓	✗	✓	✗	✓
82	20811A0586	Ponnana Bhumika	✓	✓	✓	✓	✗
83	20811A0588	Ravilla Venkata Yaswanth	✓	✓	✓	✗	✓
84	20811A0589	Ravipalli Sai Upendra	✓	✓	✓	✓	✗
85	20811A0590	Regulavalasa Deekshitha	✓	✓	✓	✓	✓
86	20811A0591	Tarun Kumar Routhu	✓	✓	✓	✓	✓

87	20811A0592	Sagarapu Durgaprasad	✓	✓	✗	✓	✓
88	20811A0593	Sahani Ashish Kumar	✓	✓	✓	✓	✓
89	20811A0594	Bhargav Salapu	✓	✓	✓	✓	✓
90	20811A0595	Salapu Rakesh	✗	✓	✓	✓	✓
91	20811A0596	Sandrana Jaswanth	✓	✓	✓	✓	✗
92	20811A0597	Seera Maheswari	✓	✓	✓	✓	✓
93	20811A0598	Shaik Ashiya	✓	✓	✓	✓	✓
94	20811A0599	Shaik Vaheed Siddu	✓	✗	✓	✓	✓
95	20811A05A1	Hymavathi Simbothu	✓	✓	✗	✓	✓
96	20811A05A2	Simhadri Tarun Narapati	✓	✗	✓	✓	✓
97	20811A05A4	Sunkara Mouli Kumar	✓	✓	✓	✗	✓
98	20811A05A5	Rajendra Prasad	✓	✓	✗	✗	✓
99	20811A05A6	Tangeti Rachana Prameela Devi	✓	✓	✓	✓	✓
100	20811A05A7	Thavva Hema	✓	✗	✓	✓	✓
101	20811A05A9	Charmi Devi Ulabala	✓	✗	✓	✓	✓
102	20811A05B0	Naveen Valluru	✓	✓	✓	✗	✓
103	20811A05B1	Saikumar Vangapandu	✓	✓	✓	✓	✓
104	20811A05B2	Vanteddu Alekhya	✗	✓	✗	✓	✓
105	20811A05B3	Vattikulla Sai Kumar	✓	✓	✓	✓	✗

106	20811A05B4	Veeravalli Meghana	✓	✓	✓	✓	✓
107	20811A05B5	V Harini	✓	✓	✓	✓	✓
108	20811A05B7	Viyypu Venkatesh	✓	✓	✓	✓	✗
109	20811A05B8	Yaka Prasanhi	✓	✓	✓	✓	✓
110	20811A05B9	Bhagyababu Yellapu	✓	✓	✓	✓	✓
111	20811A05C1	Reshmika Yenninti	✓	✓	✓	✓	✓
112	20811A05C2	Yerra Hemanthkumar	✗	✓	✓	✓	✓
113	20811A05C3	Yerra Teja Eswar	✓	✓	✓	✓	✓
114	20811A05C4	Dhana Lakshmi Kadiri	✓	✓	✓	✓	✓
115	20811A05C5	Ruttala Jaya Durga	✓	✓	✓	✗	✓
116	20811A05D0	Gopichand Kari	✓	✓	✓	✓	✓
117	21815A0501	Sivakumar Adhikari	✓	✓	✓	✓	✓
118	21815A0503	Suresh Dadi	✗	✓	✓	✓	✓
119	21815A0504	Syam Kumar Dungala	✓	✓	✓	✓	✓
120	21815A0506	Sagar Karmuri	✓	✗	✓	✓	✓
121	21815A0507	Katta Chaitanya	✓	✓	✓	✓	✓
122	21815A0508	Kolli Vasu	✓	✗	✓	✓	✓
123	21815A0509	Konapala Tarakananda	✓	✓	✓	✓	✓

124	21815A0510	Sekhar Korada	✓	✓	✓	✓	✓
125	21815A0511	Makireddi Mounika	✓	✓	✓	✓	✓
126	21815A0512	Manohar Prasad	✓	✓	✓	✓	✓
127	21815A0513	Revu Vamsi	✓	✓	✗	✓	✓
128	21815A0514	Sirasapalli Aravindh	✓	✓	✓	✓	✓
129	21815A0515	Thokala Kalyani	✗	✓	✓	✓	✓
130	21815A0516	Yenugula Ravi Kishore	✓	✓	✓	✓	✓
131	21815A0517	Maddala Sampath	✓	✓	✗	✓	✓
132	21815A0518	Thadi Manikanta	✓	✓	✓	✓	✓
133	21815A0519	Mavuri Hima Sekhar	✓	✓	✓	✓	✓



COORDINATOR


HOD

M.CHIRANJEEVI M.Tech
Associate Professor & HOD
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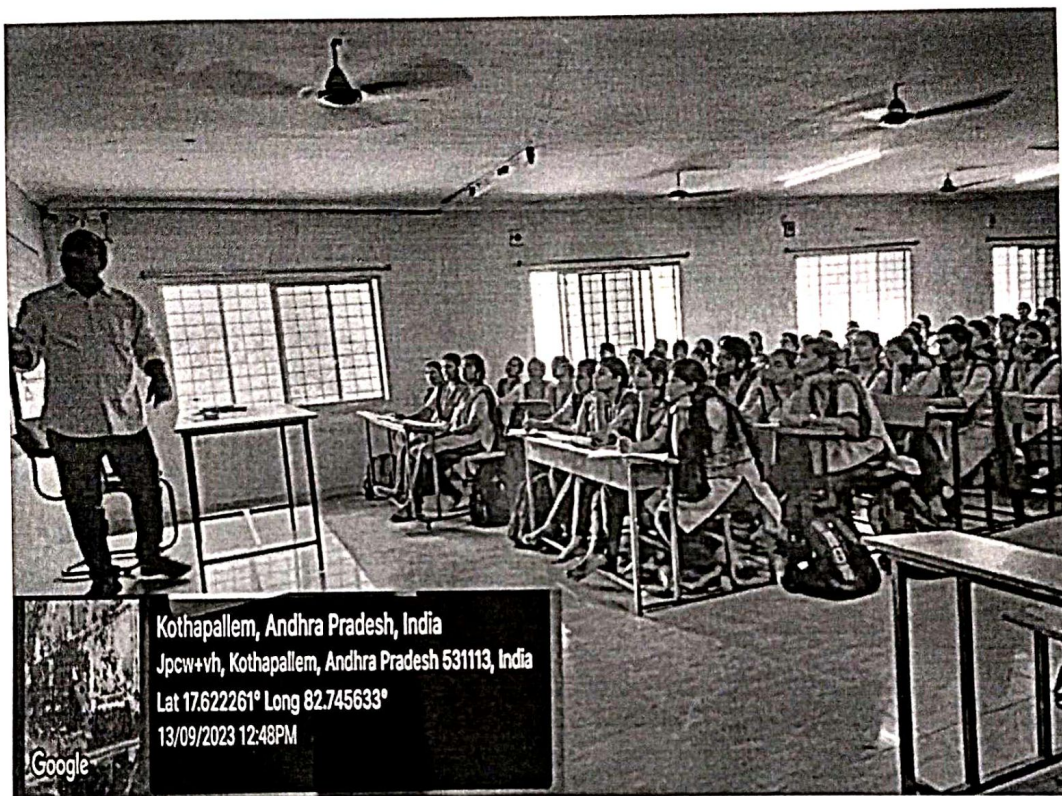


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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

ARTIFICIAL INTELLIGENCE

11th SEP 2023 to 15th SEP 2023



COORDINATOR

HOD

Head of the Department
Department Of Computer Science & Engineering
Avanathi Institute of Engineering & Technology
Makavarapalem, Anakapalli-531113.



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Certificate of Participation

This is to certify that

Mr./Ms. _____ of _____ has
participated in the Certificate Course entitled on **ARTIFICIAL INTELLIGENCE**
during from 11th SEP 2023 to 15th SEP 2023 was organised by the Department of
COMPUTER SCIENCE ENGINEERING (CSE) at Avanthi Institute of Engineering and
Technology.

Coordinator

HOD

Principal



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTU GV, Vizianagaram
Accredited by NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Anakapalli-531113

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Dt.19/09/2023

BRIEF REPORT

Department of Computer Science and Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on "**ARTIFICIAL INTELLIGENCE**" during 11th September 2023 to 15th September 2023.

The first speaker Dr.Sudhakar Yadav , Associate Professor CBIT Hyderabad is a renowned AI expert with extensive experience in machine learning and deep learning. With a background in [mention field, e.g., data science, AI development], they have worked on numerous AI-driven projects in industries such as [mention industries]. [Resource Person 1] focused on providing foundational knowledge of AI and its real-world applications, ensuring participants understood both the theoretical and practical aspects of the field.

The second speaker Ch. Raj Kumar, Gayatri College of Science & Management , Srikakulam expert brings expertise in the ethical implications and future trends of Artificial Intelligence. With a solid academic background and hands-on experience in [mention specific area of AI], they shared valuable insights into the impact of AI on industries and society at large and also led engaging discussions on ethical considerations and the role of AI in shaping the future workforce.

The workshop received overwhelming praise for its comprehensive content and interactive format. Participants were not only able to grasp the technicalities of AI but also gain an understanding of the ethical, societal, and professional challenges that come with these technologies.

"The workshop was eye-opening. I never realized how much AI is already impacting industries like healthcare and banking, and I'm excited to explore more in this field."The event concluded with a round of applause for the resource persons and the organizing team, who ensured that the workshop ran smoothly and provided an enriching experience for all involved.


COORDINATOR


HOD

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