NEWS LETTER- 2k19-2k20

NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY

NEWS BITES

VOL-19

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Student Articles

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NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY

VISION OF THE INSTITUTE

To produce professionally Excellent, Knowledgeable, Globally Competitive and Socially responsible Engineers and Entrepreneurs.

MISSION OF THE INSTITUTE

M1	**Providing Quality Education through state-of-art Infrastructure, Laboratories and Committed Staff.**
M2	**Establishing a continuous Industry - Institute Interaction, Participation and Collaboration to contribute Skilled Engineers.**
M3	**Involving Faculty members and Students in Research and Development to become globally competitive and for the betterment of the Society.**
M4	**Developing Human values, social values, Entrepreneurship skills and Professional Ethics among the Technocrats.**

NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY

VISION OF THE DEPARTMENT

Empower Information Technology students with outstanding skills, well-informed, globally-minded, and socially-conscious engineers and innovators

MISSION OF THE DEPARTMENT

M1	**Provide a comprehensive and up-to-date curriculum to empower students with excellent IT skills and knowledge.**
M2	**Cultivate a global perspective by exposing students to international IT trends and practices.**
M3	**Create an entrepreneurial ecosystem that nurtures innovative thinking and encourages IT students to become successful entrepreneurs.**
M4	**Promote ethical practices and social responsibility in the IT industry.**

NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY

PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

PEO 1	**Excel in applying technical knowledge to develop practical IT solutions for real-world challenges.**
PEO 2	**Pursue lifelong learning, staying updated with IT advancements and adapting to emerging technologies for industry relevance.**
PEO 3	**Exhibit strong leadership, teamwork, and communication skills to drive IT projects and achieve common goals effectively.**
PEO 4	**Empowering IT professionals to work with ethical and social responsibility, driving positive impacts on technology and society.**

NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY

PROGRAM SPECIFIC OUTCOMES(PSOs)

PSO 1	Understand and analyze complex problems, design efficient algorithms, and implement software solutions using various programming languages and tools.
PSO 2	Exhibit proficiency in Artificial Intelligence and Machine Learning for providing solutions to real world problems in Industry and Research establishments.
PSO 3	Design, develop, and implement software systems that meet user requirements, considering factors like usability, security, and scalability.

NRI INSTITUTE OF TECHNOLOGY
INFORMATION TECHNOLOGY

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and computing to solve Information Technology related problems.

2. Problem Analysis: Identify, formulate, review relevant research literature, and analyze complex Information Technology problems, arriving at well-founded conclusions by leveraging foundational principles of mathematics, natural sciences, and engineering sciences.

3. Design / Development of Solutions: Create solutions for intricate Information Technology challenges and design system components or processes that fulfill specified requirements while giving due regard to public health and safety, as well as cultural, societal, and environmental factors.

4. Conduct Investigations of Complex Problems: Investigate complex Information Technology problems using research methods, data analysis, and data interpretation to derive valid conclusions.

5. Modern tool usage: Use modern engineering and IT tools, software, and equipment to develop complex software projects efficiently.

6. The engineer and society: Apply engineering solutions in a societal context, considering ethical, legal, cultural, economic, and environmental aspects.

7. Environment and sustainability: Understand the Impact of Information Technology Solutions in Societal and Environmental Contexts, and Demonstrate the Knowledge of, and need for Sustainable Development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities within the field of information technology.

9. Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams, and multidisciplinary settings.

10. Communication: Effectively communicate complex information technology concepts to both IT community and society at large, including the ability to write reports, design documentation, make presentations, and give and receive clear instructions.

11. Project Management and Finance: Apply Information Technology and management principles to proficiently manage projects as an individual and leader within software development environments.

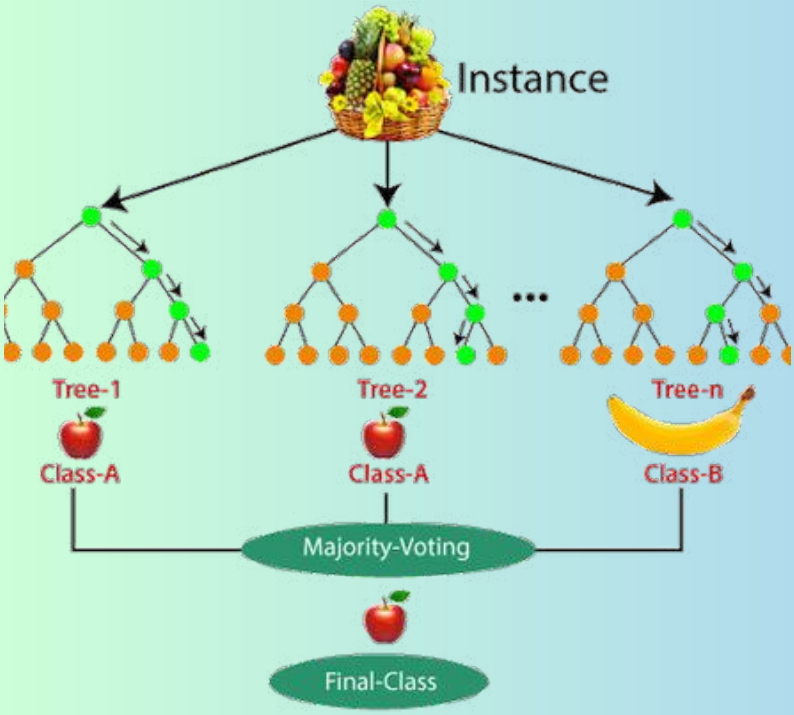
12. Life-Long Learning: Recognize the need for lifelong learning to remain current in the dynamic IT environment.

STUDENT ARTICLE ON

RANDOM FOREST

CHALLAPALLI MOHAN KRISHNA

March- 2020



RANDOM FOREST

Random Forest is a popular ensemble learning method used in machine learning for both classification and regression tasks. It was introduced by Leo Breiman and Adele Cutler. Ensemble learning involves combining the predictions from multiple machine learning algorithms to make a more robust and accurate prediction than any individual model.

Ensemble Learning:

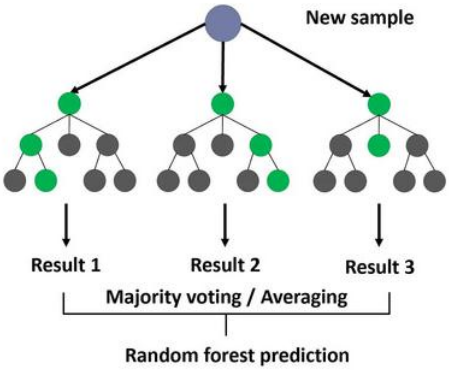
Ensemble learning involves combining multiple models to improve overall performance and generalization. Instead of relying on a single model, ensemble methods aim to harness the collective intelligence of multiple models.

Decision Trees:

Decision trees are fundamental components of Random Forests. A decision tree is a tree-like structure where each internal node represents a decision based on a particular feature, each branch represents the outcome of that decision, and each leaf node represents the final prediction.

Bagging (Bootstrap Aggregating):

Random Forest employs a technique called bagging, which stands for bootstrap aggregating. The idea is to create multiple subsets of the training data by sampling with replacement (bootstrap samples). Each subset is then used to train a separate decision tree.



Random Feature Selection:

To introduce further diversity among the trees in the ensemble, Random Forests randomly select a subset of features at each split of a decision tree. This means that, for a given decision in a tree, only a random subset of features is considered. This randomness helps to decorrelate the trees and prevents them from becoming too similar.

PLACEMENTS

SN	Name of the student Placed	Enrollment	Name of the employee	Appointment letter reference no.with date
1	ALLURI LAKSHMI BHARGAVI	16KN1A1201	TCS	TCS /2020/NRI 001
2	BADDEPUDI SRAVYA	16KN1A1204	InfyTQ	InfyTQ/2020/NRI 002
3	BEKKAM BHAVANI	16KN1A1206	ApexonHealth	ApexonHealth/2020/NRI 003
4	CHALLAPALLI MOHAN KRISHNA	16KN1A1207	Wipro	Wipro/2020/NRI 004
5	CHITTULURI PUJITHA	16KN1A1209	Yalamanchili	Yalamanchili/2020/NRI 005
6	DASARI HARITHA SAI MANI DEEPIKA	16KN1A1210	wipro	wipro/2020/NRI 006
7	DUPAKUNTLA HARI BABA NAGA ADISESHU	16KN1A1211	TCS	TCS/2020/NRI 007
8	DURGASI DIVYA	16KN1A1212	Sutherland Global	Sutherland Global/2020/NRI 008
9	GANDABANI LAVANYA	16KN1A1213	Wipro	Wipro/2020/NRI 009
10	GUDISA SRINIVAS	16KN1A1216	CTS	CTS/2020/NRI 010

11	GUDURU RUTEESH RAJU	16KN1A1217	EOS-VOICE	EOS-VOICE/2020/NRI 011
12	GUNDA MANI SRI LAKSHMI	16KN1A1218	Tech Mahindra	Tech Mahindra/2020/NRI 012
13	JANNE GOPI	16KN1A1220	EOS-VOICE	EOS-VOICE/2020/NRI 013
14	KORADA CHAMUNDESWARI	16KN1A1224	Medico	Medico/2020/NRI 014
15	MACHINENI DEEPTHI	16KN1A1226	Tech Mahindra	Tech Mahindra/2020/NRI 015
16	MACHINENI VINAYASRI	16KN1A1227	EOS-NON-VOICE	EOS-NON-VOICE/2020/NRI 016
17	KONDAVETI MANI DEEPTHI	16KN1A1228	Ridsys CTS	Ridsys CTS/2020/NRI 017
18	NAIDU SRI DURGA	16KN1A1231	Tech Mahindra	Tech Mahindra/2020/NRI 018
19	NARUKULLA NIMISHA	16KN1A1233	EOS-VOICE	EOS-VOICE/2020/NRI 019
20	PALACHARLA SAI TARUN	16KN1A1235	ValueLabs	ValueLabs/2020/NRI 020

21	PARASU SRAVANI	16KN1A1237	Mphasis	Mphasis/2020/NRI 021
22	PARIDA SARASWATHI	16KN1A1238	Sutherland	Sutherland /2020/NRI 022
23	RAJANALA BALA BHARGAVI	16KN1A1239	Mphasis	Mphasis/2020/NRI 023
24	REGANI NEELIMA	16KN1A1240	Tech Mahindra	Tech Mahindra/2020/NRI 024
25	SINGAREDDY LAKSHMI KOTESWARI	16KN1A1242	DXC Technologies	DXC Technologies/2020/NRI 025
26	MOHAMMAD SOHAIL EAJAZ	16KN1A1243	Sutherland Global	Sutherland Global/2020/NRI 026
27	SUNALGHAR NANDINI	16KN1A1245	CTS	CTS/2020/NRI 027
28	TENNETI HEMA LEKHA SRI NAGA SAI	16KN1A1247	CTS	CTS/2020/NRI 028
29	THORILKONDA DURGAMBIKAA	16KN1A1248	Sutherland Global	Sutherland Global/2020/NRI 029
30	TIPPARAJU VENKATA SESHA SRIKANTH	16KN1A1250	Sutherland Global	Sutherland Global/2020/NRI 030

31	TURLAPATI SRI NAGA LALITHA ALEKHYA	16KN1A1252	TCS	TCS/2020/NRI 031
32	UMMI GOVINDAMMA	16KN1A1253	EOS-NON-VOICE	EOS-NON-VOICE/2020/NRI 032
33	UPPALAPATI SRAVYA	16KN1A1254	Mphasis	Mphasis/2020/NRI 033
34	VARANASI NAGA VAISHNAVI	16KN1A1256	DXC Technologies	DXC Technologies/2020/NRI 034
35	VEERLA SRI HARSHA	16KN1A1257	EOS-VOICE	EOS-VOICE/2020/NRI 035

MOU'S

S.NO	NAME OF THE ORGANIZATION	SERVICE PROVIDED BY THE ORGANIZATION
1.	RK COLLEGE OF ENGINEERING	Workshops/Seminar/FDP


DEPARTMENT OF INFORMATION TECHNOLOGY
IT PEOPLE MAKES THE WORLD SMART