In this Issue

Page 1.1: Police Duty Management Android App

Page 1.2: Dark Web

Page 2.1: Virtual Reality

Page 2.2: Robotic Process Automation (RPA)

Page 3.1: Artificial Intelligence

The Power of Applied Intelligence

Page 3.2: Summer 2019 Result

Page 4.1: Machine Learning

Page 4.2: Digital Forensics

Digital Forensics — Ratiq Deshbade (TY-IF)

Reinforcement machine learning algorithms is a learning method that interacts with its environment by producing actions and discovers errors or rewards. Trial and error search and delayed reward are the most relevant characteristics of reinforcement learning.

In simple words, Digital Forensics is a branch of forensic science related to the use of digital information produced, stored, and transmitted on computers as source of evidence in investigations and forensics. Encountering the recovery and investigation of material found in digital devices, often in relation to computer crime.

The term digital forensics was originally used as a synonym for computer forensics but has expanded to cover investigation of all devices capable of storing digital data. Traditionally it has been associated with criminal law, but in recent years it has been applied to support or oppose a hypothesis before the courts.

Digital forensic analysis is the use of these types of system and networks can provide digital evidences e.g. planning a murder, cyber harassment, pornography, theft of electronically stored information and data generate fraudulent documents with the help of scanners and printers. So the role of Digital investigation in solving the case can lead to a complete change in the investigation if the same is done properly.

As the world continues to cover deeper and deeper into digital technologies and devices, it will be critical for most law firms to develop a well thought out strategy for digital forensics.

I wish you all Happy Independence Day!!

Mr. A.S. Bhise

Message From HOD

Cont... Machine Learning

Cont. from page 1

Police Duty Management .....

Each policeman is personally informed about instructions or notifications without being present physically at the duty allocation spot as during Wari reaching the duty allocation spot itself is a challenge for the policeman due to non availability of any mode of fast travel. Officers and policemen can make phone calls to each other for information sharing. The app works both in online and offline mode therefore in case of network congestion there is no problem for smooth working of the administration.

The policeman can know the other team members on duty with them. Location of the policeman can be tracked while marking the attendance hence; no policeman leaves his/her duty point. Controlling officers can also generate various reports like absence report, allocation report, memo report, duty chart etc. in single click. This project is developed by teachers Mr. S. A. Zambare, Mr. A. S. Bhise, A.S. Bhatlavande, Mr. P. S. Bhandare and students Siddhesh Khadake, Tejas Patil, Yashraj Chavan, Dhwal Dyavanapalli, Rohit Konde, Prajwal Bendaile, Abhishek Warpe and Atharv Ruplag.

Digital Forensics — Ratiq Deshbade (TY-IF)

In simple words, Digital Forensics is a branch of forensic science related to the use of digital information produced, stored, and transmitted on computers as source of evidence in investigations and forensics. Encountering the recovery and investigation of material found in digital devices, often in relation to computer crime.

The term digital forensics was originally used as a synonym for computer forensics but has expanded to cover investigation of all devices capable of storing digital data. Traditionally it has been associated with criminal law, but in recent years it has been applied to support or oppose a hypothesis before the courts.

Digital forensic analysis is the use of these types of system and networks can provide digital evidences e.g. planning a murder, cyber harassment, pornography, theft of electronically stored information and data generate fraudulent documents with the help of scanners and printers. So the role of Digital investigation in solving the case can lead to a complete change in the investigation if the same is done properly.

As the world continues to cover deeper and deeper into digital technologies and devices, it will be critical for most law firms to develop a well thought out strategy for digital forensics.

I wish you all Happy Independence Day!!

Mr. A.S. Bhise

Message From HOD

Cont... Machine Learning

Cont. from page 1

Police Duty Management .....

Each policeman is personally informed about instructions or notifications without being present physically at the duty allocation spot as during Wari reaching the duty allocation spot itself is a challenge for the policeman due to non availability of any mode of fast travel. Officers and policemen can make phone calls to each other for information sharing. The app works both in online and offline mode therefore in case of network congestion there is no problem for smooth working of the administration.

The policeman can know the other team members on duty with them. Location of the policeman can be tracked while marking the attendance hence; no policeman leaves his/her duty point. Controlling officers can also generate various reports like absence report, allocation report, memo report, duty chart etc. in single click. This project is developed by teachers Mr. S. A. Zambare, Mr. A. S. Bhise, A.S. Bhatlavande, Mr. P. S. Bhandare and students Siddhesh Khadake, Tejas Patil, Yashraj Chavan, Dhwal Dyavanapalli, Rohit Konde, Prajwal Bendaile, Abhishek Warpe and Atharv Ruplag.

Digital Forensics — Ratiq Deshbade (TY-IF)

In simple words, Digital Forensics is a branch of forensic science related to the use of digital information produced, stored, and transmitted on computers as source of evidence in investigations and forensics. Encountering the recovery and investigation of material found in digital devices, often in relation to computer crime.

The term digital forensics was originally used as a synonym for computer forensics but has expanded to cover investigation of all devices capable of storing digital data. Traditionally it has been associated with criminal law, but in recent years it has been applied to support or oppose a hypothesis before the courts.

Digital forensic analysis is the use of these types of system and networks can provide digital evidences e.g. planning a murder, cyber harassment, pornography, theft of electronically stored information and data generate fraudulent documents with the help of scanners and printers. So the role of Digital investigation in solving the case can lead to a complete change in the investigation if the same is done properly.

As the world continues to cover deeper and deeper into digital technologies and devices, it will be critical for most law firms to develop a well thought out strategy for digital forensics.

I wish you all Happy Independence Day!!

Mr. A.S. Bhise

Message From HOD

Cont... Machine Learning

Cont. from page 1

Police Duty Management .....

Each policeman is personally informed about instructions or notifications without being present physically at the duty allocation spot as during Wari reaching the duty allocation spot itself is a challenge for the policeman due to non availability of any mode of fast travel. Officers and policemen can make phone calls to each other for information sharing. The app works both in online and offline mode therefore in case of network congestion there is no problem for smooth working of the administration.

The policeman can know the other team members on duty with them. Location of the policeman can be tracked while marking the attendance hence; no policeman leaves his/her duty point. Controlling officers can also generate various reports like absence report, allocation report, memo report, duty chart etc. in single click. This project is developed by teachers Mr. S. A. Zambare, Mr. A. S. Bhise, A.S. Bhatlavande, Mr. P. S. Bhandare and students Siddhesh Khadake, Tejas Patil, Yashraj Chavan, Dhwal Dyavanapalli, Rohit Konde, Prajwal Bendaile, Abhishek Warpe and Atharv Ruplag.
EDITORIAL
It gives us great pleasure to present the first issue of our Department newsletter “TANTRA” 2019, which gives us the opportunity to focus the achievements in our department and new trends in Computer Engineering field.

Workshop
Department has organized 40 days workshop on Python for third year students and 15 day workshop on PHP for second year students in the collaboration with TechnoWings International T Solution. The main motive of such workshop is to bridge gap between Academics and Industry.

Recent Trends In IT
To Provide diploma education strengthened with basic knowledge and skills along with professional ethics enabling students to reach higher goals in the filed of Information Technology

Virtual Reality
Virtual Reality is the use of computer technology to create a simulated environment. Unlike traditional user interfaces, VR places the user inside an experience. Instead of viewing a screen in front of them, users are immersed and able to interact with 3D worlds. And that 3D world is provided by virtual reality. Virtual Reality is used in various fields like education, medical, military, scientist, and etc.

Robotic Process Automation (RPA)
Robotic process automation (RPA) can be used to automate workflow, infrastructure back office process which are labor. Intensive these software bots can interact with an in-house application, website, user portal,etc. The RPA is a software program which runs on an end user’s pc, laptop or mobile device. It is a sequence of commands which are executed by Bots under some defined set of business rules. The main goal of Robotic process automation (RPA) process to replace repetitive and boring clerical task performed by humans, with a virtual workforce. RPA does not require the development of code, nor does it require direct access to the code or database of the applications. Robotic process automation 2.0 often referred to as unassisted. RPA is the next generation of RPA related technologies. Technological advancements and improvements around artificial intelligence technologies are making it easier for businesses to take advantage of the benefits of RPA without dedicating a large budget for development work.

Our Vision
1. To Provide Diploma education strengthened with basic knowledge and skills along with professional ethics enabling students to reach higher goals in the field of Information Technology
2. To support the students for technical knowledge in the field of Information Technology
3. To make students efficient in various skill sets in Information Technology
4. To encourage students for lifelong learning

Our Mission
1. To impart value based technical education in Information Technology
2. To support the students for technical knowledge in the field of Information Technology
3. To make students efficient in various skill sets in Information Technology
4. To encourage students for lifelong learning

15th August, 2019
Wish you Happy 73rd Independence day

Smart Assistant (Asus Zenbo)
The Taiwanese electronics manufacturer Asus chairman, said: “For decades, Asus has unveiled a series of adhes, humans have dreamed of a home robot called Zenbo that can talk, control your home and that is smart, dear to our hearts, provide assistance when needed and always at our disposal. Our – all for the cost of a top-end ambition is to enable robotic smartphone. Jonney Shih, the computing for every household.”

Further it would be situation like “AI proposes and MAN disposes”, because AI is like two edges of sword at one end it solves problem intelligently and other end it has problem themselves. So, we have to handle it properly. AI is boon or bane for humankind is depend upon how we use it as “we should give and take respect from and to technology”. Otherwise human should be worried about the treat posed by AI. The popular slogan for AI is “By far, the greatest danger for AI is that people conclude too early that they understand it”.

Sport Achievement’s
MSBTE has organized Zonal Level Sport competition in the year of 2019. In that competition our students got prizes in various events.

1. Sanket Gujar (Winner Badminton)
2. Ajinkya Bahrat (Winner Badminton)
3. Onkar Bhosale (Volleyball winning team member)
4. Makarand Khiste and Sardarshen Mukar (Runner up – chess)

Artificial Intelligence
Artificial Intelligence is the Power of Applied Intelligence

A year spend in AI is enough to make one believe in god”. AI is the new buzzword of the 21st century. Artificial Intelligence is coming in to our lives faster than we could have anticipated. It’s making sure that it knows about you more than you do. AI is not specially related to computer science. This is field of study that encompasses human behavior, biology, psychology, and even languages. The current status of AI for analyses satellite images which areas are highest poverty level, Gate allocation for plane, finding the price of product while landing, ticket price determination, companies are creating robots to teach subjects, robots are very common in many industries, solving variety of problems of surgery of patients etc. The “SOPHIA” is biggest creation of AI. The Saudi Arabian granted Sophia citizenship. The advantages of AI are powerful, full and useful gadgets, self-problem-solving approach, better handling of information.

MSBTE Summer 2019 Examination: Our Ranker's

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Students</th>
<th>Class</th>
<th>Percentage</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Surwase Vasudev Eknath</td>
<td>F.Y.</td>
<td>94.75</td>
<td>First</td>
</tr>
<tr>
<td>2</td>
<td>Nimbalkar Varhrsha Haridas</td>
<td>F.Y.</td>
<td>90.50</td>
<td>Second</td>
</tr>
<tr>
<td>3</td>
<td>Ghadge Punam Rajaram</td>
<td>F.Y.</td>
<td>88.50</td>
<td>Third</td>
</tr>
<tr>
<td>4</td>
<td>Sayyad Gausiya Ayub</td>
<td>S.Y.</td>
<td>93.60</td>
<td>First</td>
</tr>
<tr>
<td>5</td>
<td>Koli Ashutosh Shankar</td>
<td>S.Y.</td>
<td>90.50</td>
<td>Second</td>
</tr>
<tr>
<td>6</td>
<td>Bahrat Ajinkya Atul</td>
<td>S.Y.</td>
<td>88.60</td>
<td>Third</td>
</tr>
<tr>
<td>7</td>
<td>Londhe Akshara Shashikant</td>
<td>T.Y.</td>
<td>90.06</td>
<td>First</td>
</tr>
<tr>
<td>8</td>
<td>Patil Ujjawala Utam</td>
<td>T.Y.</td>
<td>89.47</td>
<td>Second</td>
</tr>
<tr>
<td>9</td>
<td>Ligade Atharv Rajeshwar</td>
<td>T.Y.</td>
<td>87.06</td>
<td>Third</td>
</tr>
</tbody>
</table>

Congratulations All Rankers of

People to People

Ashtavanwar Pratishthan
Makarand Khiste (ST IF)