

## SPECIAL POINTS OF INTEREST:

- Technology Trends in 2023
- Department Events
- Technical Interview questions
- Student Articles

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## About JBIET

As one of the top ten most preferred institutions in Telangana, JBIET continues to strive to impart technical (engineering) and professional education of very high standards.

The aim of JBIET is to mould young learners into globally competitive professionals who are professionally deft, intellectually adept and socially responsible.



Sri. J.V. Krishna Rao HRA  
(USA) -Secretary  
J.B. Educational Society

The expert faculty at JBIET inculcate the best values and principles, ascribing to a modern curriculum; while the students imbibe pragmatic perception and a pro-active nature, which spurs them towards exploration and advanced inquiry, resulting in valuable insights.

The Placement record of JBIET over the years is proof of our right efforts in enabling the best in class engineering, technical and professional education to aspirants.

The College offers various UG & PG Courses.

## JBIET'S VISION & MISSION

### Vision

To be a center of excellence in engineering and management education, research and application of knowledge to benefit society with blend of ethical values and global perception.

### Mission

- To provide world class engineering education, encourage research and development.
- To evolve innovative applications of technology and develop entrepreneurship.
- To mould the students into socially responsible and capable leaders.

## About Department



The Department of Computer Science & Engineering was started in the year 2015. It offers Undergraduate Programmed, B. Tech Computer Science & Engineering, which prepares students for the recent and forthcoming demands of industry and the research world.

The Department offers a Master's Programme namely, M. Tech in Computer Science & Engineering. This programme prepares students to become leaders in knowledge driven professions.

The immensely dedicated and highly professional faculty members in the Department are active in the Research Areas of Artificial Intelligence, Machine Learning, Data Science, Network Security, Wireless Networks, Block Chain Technologies, Big Data, Data Mining, Data Analytics, Cloud Computing etc.

Department has well equipped and state-of-the-art Laboratories to train students in various technologies. The Department also makes use of the Innovation Laboratories to train its UG and PG students in the respective technology areas and research.

The Department has many Adjunct Professors/Professor of Practice who typically have positions at Industry or other Premier institutions to bring in the industry expertise and research rigor in our programmes provide specialized supervision of student projects.

The students of CSE Department are placed in various top MNCs like IBM, Accenture, Cap Gemini, Cognizant, Wipro, Infosys, Mind tree, etc. with an emolument in the range of 2.86 Lakhs to 9.75 Lakhs per annum.

## About Department

### Vision

To meet the emerging trends in computer Science and Engineering, strive for self-reliance enabled through high end research by adapting a futuristic approach.

### Mission

**M1:** To impart qualitative education, prepare students refurbish their latent talents and aspire for a pragmatic career in Computer Science and Engineering.

**M2:** To provide an ambiance to develop strategic areas of advance study with perception to foster industry centric education in Computer Science and Engineering.

**M3:** To inculcate self-learning among students to make them self-reliant and socially responsible.

### Program Educational Objectives (PEOs)

Program outcomes are narrower statements that describe what students are expected to know and be able to do upon the graduation. They are formed in line with the graduate attributes of NAAC. These relate to the Skills, knowledge, attitudes, values and behavior outcomes that students acquire through the program.

<b>PEO1</b>	To prepare graduates to apply the knowledge and skills acquired in Mathematics, Basic Science and Engineering to succeed in their career, pursue research and or obtain higher / advanced degree.
<b>PEO2</b>	To prepare graduates to learn emerging technologies, work in multidisciplinary fields, apply computer engineering solutions within a global, societal, environmental context, acquire leadership qualities and enable them to become successful entrepreneurs.
<b>PEO3</b>	To prepare graduates communicate effectively, exhibit professionalism with integrity, morals, ethical conduct and engage in lifelong learning.

### Program Specific Outcomes (PSOs)

<b>PSO 1</b>	Ability to design and develop computing system using mathematical knowledge and expertise other disciplines.
<b>PSO 2</b>	Ability to test and analyse quality of various systems to integrate them in larger computer systems.

## About Department

### Program Outcomes (POs)

<b>PO1</b>	<b>Engineering Knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
<b>PO2</b>	<b>Problem Analysis:</b> Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
<b>PO3</b>	<b>Design / Development of Solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
<b>PO4</b>	<b>Conduct investigations of complex problems:</b> using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
<b>PO5</b>	<b>Modern Tool Usage:</b> Create, select, and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
<b>PO6</b>	<b>The Engineer and Society:</b> Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to professional engineering practice.
<b>PO7</b>	<b>Environment and Sustainability:</b> Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
<b>PO8</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
<b>PO9</b>	<b>Individual and Teamwork:</b> Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
<b>PO10</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>PO11</b>	<b>Project Management and Finance:</b> Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>PO12</b>	<b>Life-long Learning:</b> Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change. Any signatory needs to provide an overview of its learning outcomes and confirm that compliance of programs.



Dr.G. Sreenivasulu Ph.D.  
HOD Department of CSE

*"People worry that computers will get too smart and take over the world, but the real problem is that they're too stupid and they've already taken over the world."*

## Message from HOD

I feel privileged to head the Department of Computer Science and Engineering. The department has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated and learned faculty.

The objective of the department is to prepare students for successful careers in industry, research and academics to meet the needs of growing technology.

*"We are what our thoughts have made us. So take care about what you think. Always be a part of the solution, do not be the part of problem. Always try to update your knowledge else, you will be outdated. If you want success do all the things you are supposed to do, then you need not search for shortcuts".*

## Technology Trends in 2023

### IOT in Smart Cities

#### Introduction

Cities, big and small, are becoming densely populated owing to the rise in urbanization. To efficiently manage traffic congestion, sanitation, waste management, environmental degradation & increasing energy consumption, municipalities are turning to innovative city solutions, such as the Internet of Things (IoT).

#### Internet of Things (IoT) and the Smart City

The Internet of Things (IoT) refers to the network of physical objects, such as devices, vehicles, and buildings, embedded with sensors, software, and connectivity, which enable them to collect and exchange data. These connected devices can communicate with other devices and systems, allowing them to function and share data seamlessly.



**Mrs. Phatan Shameena Begum, M.Tech**

**Assistant Professor, Dept. of CSE**

## Faculty Accomplishments

### Research paper - related activity done

- Dr.P.Sreenivasa Rao ,Published E-Paper Entitled **“Efficient Retrieval Over Documents Encrypted By Attributes In Cloud Computing”** held at International Journal of System Design and Information Processing (SDIP) indexed in UGC Journal volume:11,issue-3, ISSN: Online: 2321-0591 in July 2023.
- Our CSE Faculty Mr.A.Ramesh Babu ,Published E-Paper Entitled **“A Blockchain- Based Approach For Drug Traceability In Healthcare Supply Chain “** held At Journal Of Engineering Sciences, Volume 14 Issue 4, ISSN Online: 03777-9254, in August 2023.
- Dr.Niraj Upadhayaya, Published, Paper Entitled **“Philosophy And Ethical Dimensions Of Generative Deep Learning”**, held at International Journal of System Design And Information Processing(SDIP) volume:11, Issue-3, Page Nos 140-144 , ISSN:2319- 9288 in July 2023.
- Dr.G.Sreenivasulu ,Published E-Paper Entitled **“JB Outcome Based Education Software”** held At Journal of Engineering Sciences, Volume 11 Issue 4 , ISSN: Online: 2321-0591, in October 2023.
- Mr.A.Ramesh Babu, Presented A E-Paper Entitled **“Cardiovascular Diseases Detection Using Supervised Machine Learning Techniques“** held at International Journal of System Design And Information Processing(SDIP),Volume 11 - Issue 3, Page nos 226-231, ISSN Online: 2321-0591, in August 2023.
- Our CSE Faculty Mr.N.Thirumala Rao ,Published E-Paper Entitled **“A Student Chat Bot For College Administration Using Artificial Intelligence”** held At Journal Of Engineering Sciences, Volume 14 Issue 4, ISSN Online: 03777-9254, in August 2023.
- Mr.A.Ramesh Babu, Presented A E-Paper titled **“Cyberbullying Detection On Social Media Platforms Using Machine Learning”** held at International Journal of System Design And Information Processing(SDIP),indexed in UGC Journal ,Volume 11 - Issue 3, ISSN Online: 2321-0591, in August 2023.
- Mr.D.Himagiri, Presented A E-Paper titled **”Recommendation For E-Commerce Using Machine Learning Algorithms”** held at International Journal of System Design And Information Processing(SDIP),indexed in UGC Journal ,Volume 11 - Issue 3, ISSN Online: 2321-0591, in September 2023.
- Our CSE faculty Mrs.S.Pavani ,Presented a e-paper on topic **“Bitcoin Price Prediction Using Deep Learning”** held at International Journal of Scientific Research in Science, Engineering and Technology indexed in UGC Journal , Volume 10/Issue 2 , Online ISSN: 2394-4099 in October 2023.



## Faculty Accomplishments

### (Conference / Patent / Paper / Book Publication Etc..)

#### Patents

- Our CSE Faculties Dr. P Srinivasa Rao, Mr.Himagiri Danapana ,Mr.Molkar Rajkumar, Mrs. S.Pavani, Mr. Badana Upendra ,Mr. M.Anil filed a Patent on the topic “**Generative Model For Creating Synthetic 3d Environments from 2D Images**” dated 21/12/2023.
- Our CSE Faculties Dr. Sreenivasulu Gonuguntla ,Dr. Putti Srinivasarao, N.Thirumala Rao,Mrs. Savaram Gayathri Devi,Mr. Rajasekhar Gorthi,Mr. Molkar Raj kumar filed a Patent on the topic “**Reinforcement Learning Framework For Autonomous Vehicle Navigation In Complex Urban Environments**” dated 22/12/2023.

#### Publications

- Dr.G.Sreenivasulu Published a paper entitled ” **Stock Market Prediction Using Transformers**” held at International Journal of Scientific Research in Science Engineering & Technology, indexed in UGC Journal, Volume 10/ Issue 2, Page No. 502-505, ISSN :Online: 2394-4099 in October 2023.
- Dr.Niraj Upadhayaya, Published, Paper Entitled “**Philosophy And Ethical Dimensions Of Generative Deep Learning**”, held at System Design And Information Processing(SDIP) Vol:11, issue-3,Page Nos 140-144, ISSN:2319-9288 in July 2023.
- Dr.P.Srinivasa Rao, Published a paper entitled ” **Time Series Earthquake Prediction Model**” held at International Journal of Scientific Research in Science Engineering & Technology, indexed in UGC Journal, Volume 10/ Issue 2, ISSN :Online: 2394-4099 in October 2023.
- Mr.D.Himagiri, presented a e-paper entitled “**Smart Traffic Controlling System Using Image Processing**” held at International Journal of System Design & Information Processing(SDIP), Volume 11 (2023) - Issue 3, Page116-120, ISSN Online: 2321- 0591, in August 2023.
- Our CSE faculty, Mrs.S.Gayathri Devi, presented a paper entitled “**Comparison Of Machine Learning Methods For Breast Cancer Diagnosis**” held at International Journal of System Design & Information Processing (SDIP), Volume 11- Issue 3, ISSN Online: 2321- 0591, in August 2023.
- Our CSE faculty, Mr.N.Thirumala Rao, presented a paper entitled “**Leaf Disease Detection Using Machine Learning And Feature Exploration**” held at International Journal of Scientific Research in Science Engineering & Technology, indexed in UGC Journal, Volume 10/ Issue 2, ISSN :Online: 2394-4099 in October 2023.

## Faculty Accomplishments

### Conferences

- Dr.G.Sreenivasulu has attended the Conference on the topic “**Electricity Consumption Prediction Using Machine Learning**” held at International Journal of Scientific Research in Science Engineering & Technology , indexed in UGC Journal, Volume 10 Issue 2, ISSN Online: 2394-4099 in September 2023.
- Dr.P. Srinivasa Rao has attended the Conference on the topic “**Uncovering Fraudulent Apps With Machine Learning Techniques**” held at International Journal of System Design and Information Processing (SDIP), at UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Faculty Mr.A.Ramesh Babu has attended the Conference on the topic “**Cyberbullying Detection On Social Media Platforms Using Machine Learning** “ held at International Journal of System Design and Information Processing (SDIP) indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Faculty Mr.D.Himagiri has attended the Conference on the topic “**Bastion Host For Securing Cloud Data Under Key Exposure**” held at International Journal of System Design and Information Processing (SDIP) ,Volume 14 Issue 4, ISSN Online: 03777- 9254 in October 2023.
- Our CSE Faculty Mrs.S.Gayathri Devi has attended the Conference on the topic “**Appointment Managing System Using Full Stack Development** “ held at International Journal of System Design and Information Processing (SDIP) indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.

### One Week / 3 (or) 2 Days FDP:

- Dr. Niraj Upadhayaya, Prof CSE and Dean R&D participated in 5 days FDP on “**High Performance Computing**” at KL University, Vijayawada from 20-10-23 to 24-10-23.
- Dr. Rama Bulusu ,participated in a 5-days online FDP on “**Natural Language Processing**” from VJIT, from 21-07-2023 to 25-07-2023.
- Our CSE Faculty Mr. Himagiri Danapana participated in 12 Week course **NPTEL Online Certification on “Python Programming”**, MoE, Govt. of India, May – August ,2023, IIT Kharagpur and SWAYAM.
- Our CSE Faculty Mrs.Shaik Asha Participated in 5 days online FDP on “**Natural Language Processing**” from VJIT, from 21-07-2023 to 25-07-2023.



## Seminars/Workshops/FDPs

- Our CSE Faculty Mr. Anil Participated in 5 days online FDP on “Natural Language Processing” from VJIT, from 21-07-2023 to 25-07-2023.
- Our CSE Faculty Mr. Soheab Irfan Participated in 5 days online FDP on “Natural Language Processing” from VJIT, from 21-07-2023 to 25-07-2023.

### 1. EXPERT LECTURE

The Department of CSE in collaboration with other Departments of JBIET, conducted a One day Expert Lecture on “Innovation Orientation Session by T-hub” which held on 16/06/2023.



### 2. EXPERT LECTURE

The Department of CSE in collaboration with other Departments of JBIET conducted a One day Expert Talk on “How to Plan for Startup & legal & Ethical steps” which held on 11/07/2023.



## Seminars/Workshops/FDPS

### 3.WORKSHOP

The Department of CSE, JBIET conducted a one-day workshop on “Research Trends in AI” through ACM Chapter & CODE HUB on 02/09/2023.



*“Books allow you  
to fully explore a  
topic and immerse  
yourself in a  
deeper way than  
most media today”*

## Faculty Accomplishments

- Dr.G.Sreenivasulu has attended the Conference on the topic **“Electricity Consumption Prediction Using Machine Learning”** held at International Journal of Scientific Research in Science Engineering & Technology , indexed in UGC Journal, Volume 10 Issue 2, ISSN Online: 2394-4099 in September 2023.
- Dr.P. Srinivasa Rao has attended the Conference on the topic **“Uncovering Fraudulent Apps with Machine Learning Techniques”** held at International Journal of System Design and Information Processing (SDIP), indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Faculty Mr.A.Ramesh Babu ,Published E-Paper Entitled **“A Block chain- Based Approach For Drug Traceability In Healthcare Supply Chain “** held At Journal Of Engineering Sciences, Volume 14 Issue 4, ISSN Online: 03777-9254, in August 2023.
- Our CSE Faculty Mr.D.Himagiri has attended the Conference on the topic **“Bastion Host For Securing Cloud Data Under Key Exposure”** held at International Journal of System Design and Information Processing (SDIP) , Volume 14 Issue 4, ISSN Online: 03777- 9254 in October 2023.
- Our CSE Faculty Mrs.S.Gayathri Devi has attended the Conference on the topic **“Appointment Managing System Using Full Stack Development “** held at International Journal of System Design and Information Processing (SDIP) , in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Faculty Dr.Rama Bulusu Published Paper On The Topic **“Uncovering Fraudulent Apps With Machine Learning Techniques “** held At International Journal Of System Design And Information Processing (SDIP) Indexed In UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Faculty, Mrs.S.Gayathri Devi, Published, E-Paper Entitled **“Vigorous Malware Detection In Iot Devices Using Machine Learning ”**, held At Journal Of Engineering Sciences, Volume 14/ Issue 04, ISSN Online: 03777-9254 in October 2023.
- Mrs.S.Pavani has Published Paper on the topic **“Drowsiness Detection System Using Machine Learning”**, held at International Journal of Scientific Research in Science Engineering & Technology , indexed in UGC Journal, Volume 10 Issue 2,Page Nos 693-699, ISSN Online: 2394-4099 in September 2023.
- Mr.G.Sreenivasulu has Published Paper on the topic **“Deep Learning Based Text To Image Generation”** , held at International Journal of Scientific Research in Science Engineering & Technology , in UGC Journal, Volume 10 Issue 2,Page Nos 623-628, ISSN Online: 2394-4099 in September 2023.



## Student Triumphs

### SEMINARS/CONFERENCES/WORKSHOPS

- Our CSE Students, D. Karthik, K. Suprathik, K. Dhanush Vardhan, N. Vara Prasad, has attended the Conference on the topic **“Electricity Consumption Prediction Using Machine Learning”** held at International Journal of Scientific Research in Science Engineering & Technology ,indexed in UGC Journal, Volume 10 Issue 2, ISSN Online: 2394-4099 in September 2023.
- Our CSE Students, Asma Ul Husna, A. Niharika, P.Manga, E. Swapna, P.Manjula has attended theConference on topic **“Uncovering Fraudulent Apps With Machine Learning Techniques”** held at International Journal of System Design and Information Processing (SDIP), indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Students, Firdous Fathima , B.Sai Keerthana , K.Sowmya , G.Kalyan Sai has attended theConference on the topic **“Cyberbullying Detection On Social Media Platforms Using MachineLearning”** held at International Journal of System Design and Information Processing (SDIP) indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Students, Laharika, Adithya Vardhan, Shirisha, K.Vangmayi has attended the Conference on the topic **“Bastion Host For Securing Cloud Data Under Key Exposure”** held at International Journal of System Design and Information Processing (SDIP) ,Volume 14 Issue 4, ISSN Online: 03777-9254 in october 2023.
- Our CSE Students, R. Vishnu Sai,S.Shruthi,S. Susheel,. G. Rakshitha has attended the Conference on the topic **“Appointment Managing System Using Full Stack Development”** held at International Journal of System Design and Information Processing (SDIP) indexed in UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Students, Bandari Akhil , Boga Bhanu Teja , Buma Sai Krishna ,Nadem Krishna Teja Published Paper On topic **“Electronic Voting System Using Block chain”** held At International Journal Of System Design And Information Processing (SDIP) Indexed In UGC Journal, Volume 11 Issue 3, ISSN Online: 2321-0591 in August 2023.
- Our CSE Students, Sk .Khadar Baba,P.Abhilash Reddy, P. Deepanth Reddy,Published, E-Paper Entitled **“Vigorous Malware Detection In Iot Devices Using Machine Learning”**, held At Journal Of Engineering Sciences, Volume 14/ Issue 04, ISSN Online: 03777-9254 in October 2023.
- Our CSE Students,Y. Akash Reddy,M.HemasreePublished, E-Paper Entitled **“A Student Chat Bot For College Administration Using Artificial Intelligence”**, Held At Journal Of Engineering Sciences,Volume 14/ Issue 04, ISSN Online: 03777-9254 in October 2023.

## Student Triumphs

### SPORTS

**1.STATE LEVEL TOURNAMENT-2023 EKALAVYA-2023 HELD AT MGIT,GANDIPET,HYDERABAD TELANGANA FROM 13<sup>th</sup> to 15<sup>th</sup> October 2023.**

**1.VOLLEYBALL(MEN) :** Our 3<sup>rd</sup> year Students M.Deepak , R.Vasanth Participated in Volleyball(Men) Tournament.

**2. CRICKET(MEN):** Our CSE Students O.Manohar, M.Bharat, Srinivas, Rohan Participated in Cricket(Men) tournament.

**3.KABBADI(MEN):** Our 3<sup>rd</sup> Year CSE Student B.Chandra Sekhar got Selected At University Level kabbadi(Men) title held at JNTUH,KUKATPALLY,HYD On 26<sup>th</sup> October 2023.

**4.BOXING(MEN):** Our 3<sup>rd</sup> Year CSE Student A.Nitish got Selected At University Level Boxing(Men) title held at JNTUH,KUKATPALLY,HYD On 18<sup>th</sup> November 2023.

**2. STATE LEVEL TOURNAMENT ASHWATTHAMA-2023 HELD AT SNIST,GHATKESAR,R R DIST FROM 20<sup>TH</sup> TO 22<sup>ND</sup> NOVEMBER 2023.**

**1.BASKETBALL(GIRLS):** Our 2<sup>nd</sup> Year Students V.Janvika, R.Shravya Participated In Basketball(Girls) tournament.

**2.THROWBALL(GIRLS):** Our 2<sup>nd</sup> Year Students V.Janvika, R.Shravya,B.Shailaja,M.Tejaswini Participated in Throwball(Girls) tournament.

**3.KABBADI(GIRLS):** Our 2<sup>nd</sup> Year Student, B.Shailaja Participated in Kabbadi(Girls) tournament.

**4. KHO-KHO(MEN):** Our 2<sup>nd</sup> & 3<sup>rd</sup> Year Students,R.Vasanth,G.Vivek,A.Dattadri ,B.Chandra Sekhar Participated in Kho-Kho(Men) tournament.

**5.KABBADI(MEN):** Our CSE Students, S.Sathya narayana,P.Chandu,M.Sai Kiran, N.Simhadri, R.Shiva Participated in Kabbadi(Men) tournament.

**6.VOLLEYBALL(MEN):** Our CSE Students,M.Deepak,G.Venkatesh Participated in Volleyball(Men) tournament.

**3.15TH INDIAN OPEN ENGINEERING COLLEGIATE-2023 HELD AT VNR VJIT,NIZAMPET,HYD FROM 7TH TO 8TH DECEMBER 2023.**

**1.KABBADI(MEN):** Our CSE Students, S.Sathya narayana,P.Chandu,M.Sai Kiran, N.Simhadri, R.Shiva Participated in Kabbadi(Men) tournament.

**2.VOLLEYBALL(MEN):** Our CSE Students,M.Deepak,G.Venkatesh Participated in Volleyball(Men) tournament.

**3.THROWBALL(WOMEN):** Our 2<sup>nd</sup> Year Students V.Janvika, R.Shravya,B.Shailaja,M.Tejaswini Participated in Throwball(Women) tournament.

**4.KABBADI(WOMEN):** Our 2<sup>nd</sup> Year Students, B.Shailaja,R.Shravya Participated in Kabbadi(Women) tournament.

**5.CHESS(MEN):** Our 3<sup>rd</sup> Year CSE Student G.Shiva Sai Participated in Chess(Men) tournament.

**6.FOOTBALL(MEN):** Our 1<sup>st</sup> year Student Pallave Sourie Participated in Football(Men) tournament.

**4.STATE LEVEL SPORTS MEET-2023 HELD AT VARDHAMAN COLLEGE KACHARAM,HYDERABAD FROM 21<sup>ST</sup> TO 23<sup>RD</sup> DECEMBER.**

**1.VOLLEYBALL(MEN):** Our 3<sup>rd</sup> CSE Student,M.Deepak Participated in Volleyball(Men) tournament.

**2. KHO-KHO(MEN):** Our 2<sup>nd</sup> & 3<sup>rd</sup> Year Students,R.Vasanth,G.Vivek,A.Dattadri ,B.Chandra Sekhar Participated in Kho-Kho(Men) tournament.



(Accredited by NAAC, Approved by AICTE  
& Permanently Affiliated to JNTUH)

**JB Educational Society**

#### Campus:

Bhaskar Nagar, Moinabad Mandal  
R.R. District, Hyderabad  
Telangana State, India-500075  
☎ 08413-235127

**J.B.I.E.T. has well-built infrastructural amenities, such as adequate developed area, well-equipped laboratories, libraries and information centers with digitalization and automation and online transaction facilities in the campus. All facilities such as Medical, Transport, Canteen and Games & Sports are accessible besides Seminar Halls, Conference Halls, Indoor Auditorium, Open-Air Theatre and Banking.**



## Data Breaches

### Introduction

Data breaches can be far more than a temporary terror — they may change the course of your life. Businesses, governments, and individuals alike can experience huge complications from having sensitive information exposed. Whether you are offline or online, hackers can get to you through the internet, Bluetooth, text messages, or the online services that you use. Without proper attention to detail, a small vulnerability can cause a massive data breach. Since many people are unaware of how common modern security threats work, they don't give it enough attention.

### Definition

To define data breach: a data breach exposes confidential, sensitive, or protected information to an unauthorized person. The files in a data breach are viewed and/or shared without permission. Anyone can be at risk of a data breach — from individuals to high-level enterprises and governments. More importantly, anyone can put others at risk if they are not protected.

In general, data breaches happen due to weaknesses in 1) Technology 2) User behavior





## Occurrence Of Data Breaches

Here's how a data breach can occur:

- **An Accidental Insider**-An example would be an employee using a co-worker's computer and reading files without having the proper authorization permissions. The access is unintentional, and no information is shared. However, because it was viewed by an unauthorized person, the data is considered breached.
- **A Malicious Insider**- This person purposely accesses and/or shares data with the intent of causing harm to an individual or company. The malicious insider may have legitimate authorization to use the data, but the intent is to use the information in nefarious ways.
- **Lost or Stolen Devices**-An unencrypted and unlocked laptop or external hard drive — anything that contains sensitive information — goes missing.
- **Malicious Outside Criminals**-These are hackers who use various attack vectors to gather information from a network or an individual.

## Malicious Methods used to Breach Data

Since malicious data breaches result from cyberattacks, you should know what to watch for.

- 1) **Phishing**-These social engineering attacks are designed to fool you into causing a data breach. Phishing attackers pose as people or organizations you trust to easily deceive you. Criminals of this nature try to coax you into handing over access to sensitive data or provide the data itself.
- 2) **Brute force attacks**-In a more brash approach, hackers might enlist software tools to guess your passwords. Brute force attacks work through all the possibilities for your password until they guess correctly. These attacks take some time but have become rapid as computer speeds continue to improve. Hackers even hijack other devices like yours via malware infections to speed up the process. If your password is weak, it might only take a few seconds to crack it.



- 3) **Malware**- Your device's operating system, software, hardware, or the network and servers you're connected to can have security flaws. These gaps in protection are sought out by criminals as the perfect place to shove malware into. Spyware specifically is ideal for stealing private data while being completely undetected. You might not find this infection until it's too late.

## The damage a Data Breach can do

In many cases, data breaches cannot just be patched up with some password changes. The effects of a data leak can be a lasting issue for your reputation, finances, and more.

**For business organizations:** a data breach can have a devastating effect on an organization's reputation and financial bottom line. Organizations such as Equifax, Target, and Yahoo, for example, have been the victims of a data breach. And today, many people associate/remember those companies for the data breach incident itself, rather than their actual business operations.

**For government organizations:** compromised data can mean exposing highly confidential information to foreign parties. Military operations, political dealings, and details on essential national infrastructure can pose a major threat to a government and its citizens.

**For individuals:** identity theft is a major threat to data breach victims. Data leaks can reveal everything from social security numbers to banking information. Once a criminal has these details, they can engage in all types of fraud under your name. Theft of your identity can ruin your credit, pin you with legal issues, and it is difficult to fight back against.

While these are common cases, the harm done by data breaches can extend far beyond these situations. So, it is essential that you investigate whether your data has already been exposed. To find out if your personal or work accounts have been compromised use <https://haveibeenpwned.com/> to check (this tool checks existing data breaches for your email address and reports what was leaked).

You might want more comprehensive monitoring to know in real-time if your data has leaked. Products like Kaspersky Security Cloud offer data leak detection and help you navigate the situation.

Of course, the best way to protect yourself is to avoid being a victim in the first place. No security plan is perfect, but there are ways you can defend yourself — whether you're an individual or an enterprise.

### Data Breach Prevention

Data breach prevention needs to include everyone at all levels — from end-users to IT personnel, and all people in between. When you're trying to plan how to prevent data breach attacks or leaks, security is only as strong as the weakest link. Every person that interacts with a system can be a potential vulnerability. Even small children with a tablet on your home network can be a risk. Here are a few best practices to avoid a data breach

- **Patching and updating software** as soon as options are available.
- **High-grade encryption** for sensitive data.
- **Upgrading devices** when the software is no longer supported by the manufacturer.
- **Enforcing BYOD security policies**, like requiring all devices to use a business-grade VPN service and antivirus protection.
- **Enforcing strong credentials and multi-factor authentication** to encourage better user cybersecurity practices. Encouraging users to start using a password manager can help.
- **Educating employees** on best security practices and ways to avoid socially engineered attacks.

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