



Sri

SAI RAM ENGINEERING COLLEGE

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DEPARTMENT OF

COMPUTER SCIENCE & BUSINESS SYSTEMS

PRESENTS

TECHBIZ'23²

TOMORROW'S SUCCESS STARTS TODAY!

Highlights

- Industry-Relevant Curriculum designed by TCS and approved by AICTE.
- Mandatory Industrial training supported by TCS.
- Internship & Live project opportunities at TCS for eminent students.
- Active mentoring by Experts from TCS
- High standard of teaching, learning and evaluation processes monitored by TCS.
- Innovative dual Course that includes Technical and Management Studies which is the need of the hour.

About CSBS

B.Tech Computer Science and Business Systems (CSBS) is a spanking-new innovative-looking 4years undergraduate course designed by India's leading IT Service and Consulting Company – TCS to cater to the rising need of engineering talent with skills in technology. This dual course feeds the knowledge of students with not only the core topics of computer science but also develops an equal understanding of humanities, human values, and business discipline. The main intent of the course is to impart knowledge of cutting-edge technologies and management skills with hands-on exposure. The program will provide industry-ready engineers who are capable of using the latest computer technology in developing a business world and can drive innovation and add value to the organization and the nation in the era of Business 4.0. The students are exposed to knowledge of recent trends such as Computational Statistics, Cognitive Science and analytics, Machine Learning, Software Development Models, Design Thinking, Financial Management, Services Science and service Operational Management, Marketing Research, and Marketing Management.

EDITORIAL TEAM

Staff Coordinator - Mrs. Saraswathy S

Gayathiri Varsha A S

Arulnithi R G

Subha Lakshmi S

Shyam V

Jayashree T

FROM THE DESK OF HOD



DR. M. ANANTHI
HOD/ CSBS

I, on behalf of the department of CSBS, take immense pride and pleasure in releasing our third edition of the Newsletter **"TECHBIZ'23²"**. Bill gates quoted **"Information technology and business are becoming inextricably interwoven"**. At the core of today's modern economy, two things are important. One is Technology & the other is Business. That's why Sri Sairam Engineering college launched an innovative industry-relevant program which aims to create engineers with a Business perspective by introducing B.Tech in Computer Science & Business Systems. This Newsletter takes us on a journey which brings out all the highlights of the department including important events that took place. Through this newsletter we proudly present you the center of excellence, professional bodies that are the pillars of the department and the Industrial collaborations done so far. The publication also includes all our achievers and the funded projects in order to honor them and encourage others to emulate the success of their peer. We release the newsletter every 6 months in the hope that it encourages the students to make use of this platform and widen their horizons .I would like to thank our management for helping us transform the vision of "TECHBIZ" into reality. Last but not least, I appreciate the editorial team for their marvelous work.

ASSOCIATION MEMBERS



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Chairperson



VIJAYASUBASH E
Vice-Chairperson



ARULNITHI R G
Secretary



RAHUL V
Joint-Secretary



GANESH RAM M
Treasurer



ARAVINTH S M
Joint-Treasurer

MAGIC MEMBERS



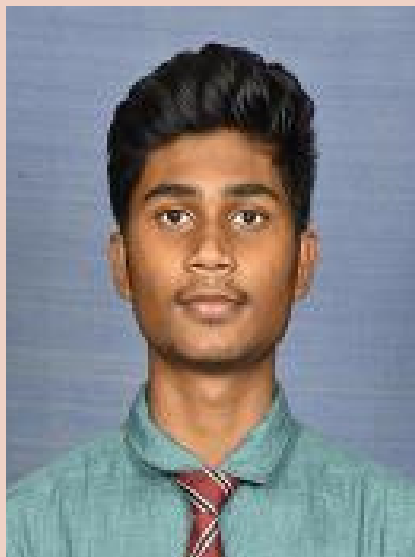
MASTER-MIND
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ARULNITHI RG



GUIDE
LOKESWARI S



INFLUENCER
PRAVEEN BALAJI S



COMMUNICATOR
AJAI K

STUDENT ARTICLE



Healing with Algorithms: AI's Vital Role in Healthcare

~Article by Aathrayee Shankara Narayanan

Artificial Intelligence (AI) is at the forefront of a healthcare revolution, reshaping how we diagnose and treat diseases. As a 20-year-old young Engineer and a passionate technical writer, I'm fascinated by AI's ability to analyze vast datasets, particularly in predicting diseases, with a special focus on heart disease.

AI algorithms, armed with medical records, genetic information, and lifestyle data, unveil hidden patterns linked to heart disease risks. This invaluable insight fuels the development of personalized prevention strategies and early detection protocols.

For example, AI systems can now predict heart attacks with astonishing accuracy, providing a crucial one-week lead time for medical professionals to intervene and save lives. Moreover, AI's precision in identifying artery plaque buildup, often invisible to the human eye, empowers physicians to diagnose heart disease at its earliest stages, leading to tailored treatment approaches.

AI's prowess extends to crafting personalized treatment plans for heart disease patients. By considering each patient's unique medical history, genetic profile, and lifestyle, AI designs treatment regimens that maximize effectiveness while minimizing side effects. Imagine AI as a virtual healthcare companion, determining the ideal medication dosage for heart disease patients. This not only ensures optimal treatment but also minimizes the risk of side effects, making treatment more effective and patient-friendly.

Notable recent milestones in AI-driven heart disease prediction include:

1. A Stanford AI system forecasting heart attacks with an impressive 80% accuracy up to a week in advance.
2. A DeepMind AI system achieving a remarkable 95% accuracy in identifying artery plaque buildup.
3. The groundbreaking HeartFlow AI-powered tool that enhances the diagnosis and treatment of coronary artery disease.

AI is not just a tool - it's a beacon of hope for healthcare. By automating tasks, recognizing intricate patterns, and delivering personalized treatment plans, AI is enhancing the quality of care and lighting the way to a healthier future for all.

INDUSTRIAL COLLABORATION



CONNECTION



INDUSTRY INSTITUTE ACADEMIA



CONSULTANCY PROJECTS



DID YOU KNOW?

APPLE WERE ORIGINALLY DESIGNING AN APPLE SHAPED
FLIP PHONE BEFORE THE FIRST IPHONE.

CENTER OF EXCELLENCE AND PROFESSIONAL BODIES



STUDENT ARTICLE



Demystifying Cloud Computing

~Article by Keerthana S

In today's digital age, cloud computing is like a superpower changing how we use computers and the internet. It's not just for tech experts; it's accessible to everyone. Think of cloud computing as a magical toolbox of computer stuff stored on the internet, so you don't need a supercomputer at home. Instead, you can use powerful computers far away via the internet. It's about making things easier, cheaper, and more flexible, like a magic button that makes your computer faster or slower, and you only pay for what you use, saving money.

There are three special types of cloud services: one is like renting a ready-to-use computer (IaaS), another is like a workshop for making apps without worrying about tools (PaaS), and the third is like using apps without installing them (SaaS). You can use the public cloud, like a mall for services, cheap and easy; or a private cloud, your personal workspace with more control; or a hybrid cloud, like having two places for different tasks.

People use cloud computing in amazing ways; small businesses can rent superpowers to build their cool stuff without tech worries. In healthcare, doctors share patient info safely. For students and teachers, learning is more fun because they can share ideas and lessons even from different places. Gamers no longer need expensive machines; they can play big games from the cloud, just like watching movies.

Cloud computing has some challenges, like keeping things safe, but many work to make it secure. In the future, expect exciting things like edge computing, making things even faster, and quantum computing, super-duper computers for tough problems. So, cloud computing is like a friendly genie that makes computers better and cheaper. It's not just for tech experts; it's for everyone, changing our lives. Whether you're a business owner, a student, a gamer, or just curious, the cloud has something exciting for you. It's not just tech; it's a new way of living in the digital world.

STUDENTS ACHIEVEMENTS

"Engraving Emotion" written by Keerthana S, – A debutant poetry book of her received by the honourable **Governor of Tamil Nadu.**



Balaji A and Team received the **Best Team Award** in the **ONEYES GRAND HACKATHON** Event.



Balaji A and Team won the **E-waste Hackathon** conducted by the Maharashtra Pollution Board and received **cash prize of Rs. 3,00,000/-**



Keerthana S participated in **IDEATHON CHALLENGE 2023** conducted by L&T and bagged the second prize along with the **cash prize of Rs. 75,000/-**

STUDENTS ACHIEVEMENTS

Tharun Raj R G has bagged the **first place** in a **24 hour Hackathon event** at St.Jospeh College of Engineering along with a **cash prize of Rs. 15,000/-**



Haribabu N has been honored with the **Upcoming Public Speaker Award 23** from Mega TV.



Hariharan and **Avula Naga Sanjay** completed the **Red Hat certification** and **Topped** the exam.



The Writing Arena Publishers, owned by **Keerthana. S**, has been awarded the prestigious title of "**Best Collaborative Publishing Innovator**" at the **Tamilnadu Startup Awards**.

STUDENTS ACHIEVEMENTS



Jaya Darshini G and team received **The Young Achiever Award** in **Dr. KALAM YOUNG ACHIEVERS AWARD 2023** by **WORLD YOUTH FEDERATION**. They were awarded for the best project that contributes to the sustainable development of the society.



Haribabu N received the **Best Volunteer Award** at **WIE International Leadership Summit 2023**.



Team **MASTER MAGGOT** bagged the prize amount of **Rs. 1,00,000/-** in **Smart India Hackathon'22**.



Sai Sunil Kumar and **Sai Sakthivel R S** got selected as **IEEE Region 10 WIE Pre-University Champion 2023** for **IEEE WIE Social Innovation Camp**. Their outstanding achievement was recognized and celebrated by the **IEEE WIE Affinity Group's Student Branch Chapter**, highlighting their dedication.

STUDENTS ACHIEVEMENTS

Deepak N bagged the prize amount of **Rs. 1,00,000/-** in **SIH 2022** and got selected to participate in the **UNESCO INDIA-AFRICA International Hackathon** for his tremendous success in SIH.



Seven teams from 3rd year CSBS won prizes in **SDG Innovathon 1.0**

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-
-
-
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Four teams from 2nd year CSBS won prizes in **SDG Solvathon 2.0**



Four teams from 1st year CSBS won prizes in **SDG Ideathon 3.0**

STUDENT'S BALCONY



Tharun Raj R G



K Sathish Kumar



Keerthana Siveka S



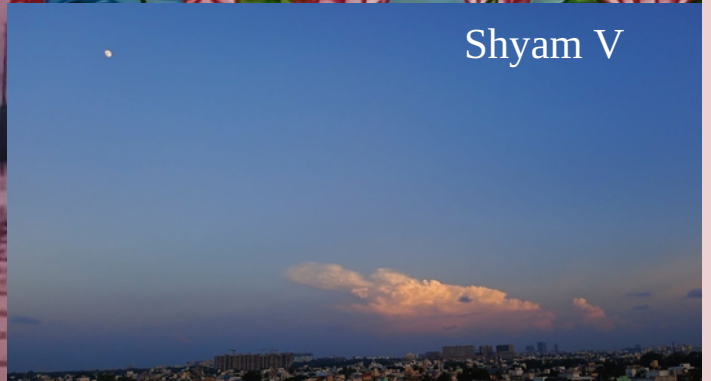
Bhargav S



Sujitha K



Kalaivani U V



Shyam V

FACULTIES ACHIEVEMENTS

Dr. M. Ananthi has been honored with the **"Making India Employable Conference & Awards,"** a prestigious recognition that celebrates her contributions in education. Her selection as one of the top **50 under 50** in the education category underscores her dedication to enhancing employability and shaping the future of India's workforce.



Ms. Sathya T has received the prestigious title of **"Best Mentor"** in recognition of her exceptional support and unwavering motivation, a testament to her invaluable role in nurturing and guiding individuals towards their personal and professional growth.



Mr. Prabhu D has been honored with the **"Best Faculty Advisor Award"** for his outstanding guidance and mentorship of students at **The Institution of Engineers (India)**, highlighting his significant contributions to the educational and professional development of future engineers.

FUNDED PROJECTS

ENTREPRENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE
(An autonomous society of the Government of Tamil Nadu)
ParthasarathyKoil Street, SIDCO Industrial Estate,
Ekkaduthangal, Guindy, Chennai 600032, Tamil Nadu
Tel : +91-44-2225-2081/82/83/84 Web : www.editi.in

Roc.No.II-01/44/2022/EDII/2022 Date : 10.10.2022

Sir,

Sub: EDII - Innovation Voucher Programme (IVP) - Proposal submitted under IVP - Sanctioned Order Issued - Reg.

Ref: 1.IVP Proposal sent by M/S Big Bucks Innovation.
2.Minutes of the Screening Committee meeting held on 14.10.2022.

As per the above references, this is to inform that your proposal has been approved by the Screening Committee under "Innovation Voucher Programme". In this regard, the details of the recommendations and terms and conditions are as follows :

1. Name of the Company : Big Bucks Innovation
2. Project Title : Effective Energy Management System in Automobiles
3. Voucher Type : Voucher - A
4. Maximum Project Duration : 12 Months
5. Knowledge Partner : Sri Sairam Engineering College Chennai
6. Total Project Cost : Rs.2,00,000/-

Break up of Project Cost (In Rs.) :				
EDII Contribution			Company's Contribution	Total
1 st Installment 50%	2 nd Installment 40%	3 rd Installment 10%		
74,500	59,600	14,900	51,000	2,00,000

Terms and Conditions of the grant :

- 1st Installment: 50 percent of the eligible grant will be released on signing of the Tripartite agreement.
- 2nd Installment: 40 percent will be released on submission of the Progress report, Utilization Certificate, Photos & Videos, etc. and its acceptance by the EDII within the time frame stipulated in the agreement.



Dr. Ananthi M and Balaji A and the team has received **Rs. 2,00,000/-** funding from **Entrepreneurship Development and Innovation Institute, Govt. of Tamilnadu.**



Sree Lakshmi and team under the mentorship of **Ms. Sathya T** got selected and received a fund of **Rs. 50,000/-** from **Unnat Bharat Abhiyan** for the project "**Cataract and Glaucoma Detection**".

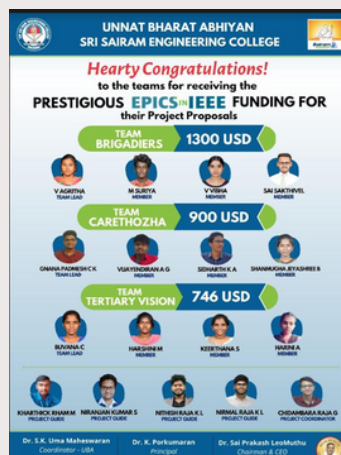
IEEE FUNDED PROJECTS

Mr. Prabhu D and Subha Lakshmi S and the team has received **6600 USD** funding from **IEEE HAC/SIGHT**.



Manish and the team has received **4000 USD** funding from **IEEE HAC/SIGHT**.

Sai Sakthivel R S and the team received **1300 USD** and **Keerthana S** and the the team received **746 USD** fundings from **IEEE EPICS**.





நான் இங்கே நீயும் அங்கே

அவன்: நீ யில்லா நான் மௌனத்தின் சத்தம் ஆகிறேன்
அவள்: அச்சத்துடன் தாளமும் சேர்ந்து இசை ஆகுமே..

அவன்: நீ இன்றி நான் கரைசேரா அலையாக..
அவள்: ம்ம்ம்.. அக்கரை நின்று கடல் ரசிப்பதும் அழகே..

அவன்: இமை நொடிகளே நாம் சந்தித்தது..
அவள்: அந்நொடிகள் இமயம் ஆனதே..

அவன்: பனி துளியாக உன் நினைவுகள்,
அவள்: பனி நீங்கா இரவு நீடிக்க வேண்டுகிறேன்..

அவன்: அகமா புறமா சொல்ல தெரியவில்லை
அவள்: அனைத்தும் நாம் ஆவோம்...

- K Dhanush Prabhu

மழை

மண்ணின் மழைத்துளி அவள்
உழவனின் உயிர்த்துளி அவள்
மானுட மேகத்தின் மகள்
பல நதிகளை வாழவைக்கும் அகல்
மின்னல் பாடுமோ அவள் புகழ்
ஆதவனிடம் மட்டும் ஏனோ ஒரு இகல்
ஆகாயத்தின் ஆனந்த கண்ணீரோ?
இல்லை தெய்வத்தால் ஆன தண்ணீரோ
வானவில்லின் தொழியோ அவள்?
வானத்தால் ஆன ஹொலியோ இவள்.
மரமும் மண்ணும் தந்த விலையோ?
இல்லை கடவுளின் கைவன்ன களையோ?
குடைக்கில் இருக்கும் மனமும் இவளை கட்டி
அணைக்க ஏங்குமோ!
சுட்டெரிக்கும் சூரியனும் இவளை கண்டால்
தூங்குமோ?
பல இடங்களில் தேன் ஆகினாள்
சில இடங்களில் வீன் ஆகினாள்
காற்று சிதக்கிய சிலை ஆகினாள்
அதனால் மானுடம் போற்றும் மழை ஆகினாள்

-Ruthranath

மனிதம்

உலகம் ஒரு நாள்
உன்னை போற்றும்,
பல நாள் கனவும் ஒரு
நாள் நிகழும்,
சிறகை விரித்து பறக்க
துவங்கு,
கலங்கும் கண்ணில்
கடமை புகட்டு,
உருகும் மனதில்
அனலை திரட்டு,
காயம் மறந்து இதயம்
மிரட்டு,
உன் மேல் நம்பிக்கை நீ
விதைத்திடு,
ஓடும் நதியில் நீ
இணைந்திடு,
மாற்றம் அதை பழகிட
தொடங்கு,
தேசம் ஒன்றே, இலக்கும்
ஒன்றே,
ஒற்றுமை பழகு, நாளை
நமதே.

-Sai Sakthivel

ஒரு வெட்கம் வருதே

உன்னை வியந்து பார்க்கும்
வெண்ணிலவுக்கு
ஒன்றே ஒன்று மட்டும் சொல்
எனக்கு வெட்கமாய் வருது என்று.

காதல் காற்று

இங்கு காற்று வீசவில்லை
உன்னைத்தேடி வந்திருக்கலாம்
வந்திருந்தாள் கடிதம் அனுபவம்
வீட்டின் விலாசத்துடன்

-Vijayasubash

TESTIMONIALS



- by Sree Lakshmi

I'm incredibly grateful for my time in the Department of Computer Science and Business Systems. Through the rigorous coursework and excellent guidance from the faculty, I was able to gain a deep understanding of the real-world projects. One of the most rewarding experiences was participating in various project demonstrations and competitions. Our department's emphasis on practical application allowed me to work on cutting-edge projects and put my skills to the test. The collaborative atmosphere within the department fostered teamwork and innovation, enabling me to excel in the projects. Overall, I can confidently say that my time in this Department has been a transformative journey, and I credit it for my success in various project demonstrations and competitions. The knowledge and skills I acquired have not only propelled my academic achievements but have also set me on a path for a successful career in the tech and business world.



- by Sai Sakthivel R S

The department of Computer Science and Business Systems has been an excellent place to express and discover my talent, thoughtful ideas and enthusiasm towards various activities and opportunities. We have been a powerhouse of achievements and hold a great hand in the campus on many forums. We have been the contributors to industry academia collaboration and other initiatives that truly have been creating impact on the students community. Under the visionary leadership and guidance of our beloved Head of Department Dr. M. Ananthi mam, we have been consistently working towards progress that will empower further development of the department and our successful ventures.



- by Sri Boomija K

I've been part of the B. Tech Computer Science and Business Systems, and it's been quite a journey. This course offers a hands-on approach that lets students dive into different areas, making learning interactive and engaging. The integration of business into computer science is an essential move that helps us think analytically and come up with innovative project ideas. The syllabus might seem vast, but it's a goldmine of essential knowledge in today's fast-paced world. One subject that really struck a chord with me is Business Communication and Value Science. It covers topics like cultural diversity in the workplace, which are crucial for the real world. It helps us understand the importance of these elements in our future careers. In my view, this course equips us with the skills and knowledge needed to tackle real-world problems as engineers. It's a great blend of tech and business, preparing us for the challenges of the modern professional landscape.