

# DECRYPTED

A PUBLICATION OF DEPARTMENT  
OF COMPUTER ENGINEERING

Jan-June 2023



CELEBRATING  
**150**  
YEARS OF  
SERVICE

# Anjuman-I-Islam's Kalsekar Technical Campus

SCHOOL OF ENGINEERING & TECHNOLOGY

*The Anjuman-I-Islam, a prominent educational conglomerate in Mumbai has started its 150 years of successful journey. The educational institute that started with a modest one school in February 1874, now has more than eighty institutions. The educational conglomerate and social organization was founded by a small group of devout and progressive Muslims led by Dr. Badruddin Tyabji, Third President of the Indian National Congress and the First Acting Indian Chief Justice of Bombay High Court, with a "desire to see the Muslim Community advance in education and social standing".*

# President Message



*“The art challenges the technology, and the technology inspires art.”*

**DR. ZAHIR. I. KAZI**

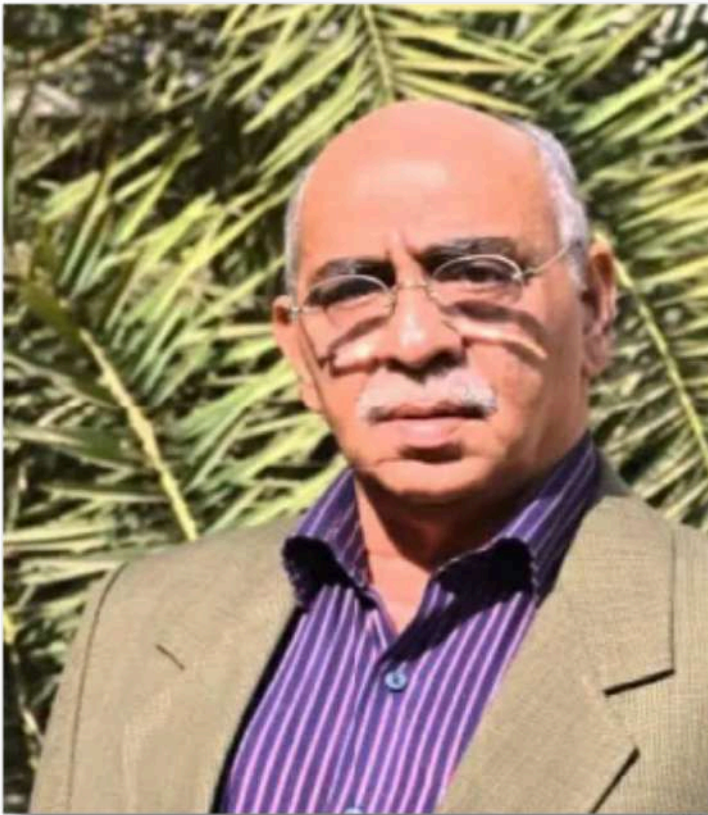
President,  
Anjuman-I-Islam,  
Mumbai

**All progress takes place outside the comfort zone!**

Dear aspiring students,

I welcome you to Kalsekar Technical Campus (AIKTC), a role model campus of Anjuman-I-Islam and a high-tech educational campus of Navi Mumbai. AIKTC came into existence by the progressive approach and efforts of Anjuman-I-Islam Mumbai, the foremost prestigious educational and social organization committed for nation building services since 1874.

# Chairman Message



*“With You.... Till You Do Not  
Need Us – In Any Way.”*

**MR. BURHAN HARRIS**

Hon. Executive  
Chairman, BINM.

## Escape the Ordinary!

My dear students,

Hearty welcome to Anjuman-I-Islam's Kalsekar Technical Campus. It is one of the highly acclaimed institutions in the history of Anjuman-I-Islam. From the beginning of this campus, we are remarkably successful in imparting quality technical education through sincere and honest practices, thus building an ambit of great work culture. We enable every student to explore new realms of knowledge, skills, attitude and wisdom. In this campus, we produce knowledgeable technical professionals having the right attitude, character and inspiring mind, thus making them lifelong learners. For this, we do all that is required to be done for you.

# Director Message



*“Do what you have to do until  
you can do what you want to  
do!*

*Ask yourself if what you’re  
doing today is getting you  
closer to where you want to be  
tomorrow!*

**DR. RAMJAN AHAMAD KHATIK**

Director  
AIKTC, New Panvel

**“The distance between Dreams and Reality is called Action”**

My dear students,

We have completed a decade of Innovative Teaching, Leading, Learning and Growing. If you have a passionate desire, believe in yourself, ready to visualize and push yourself with 1% extra effort (action) compared to others, then you are at the right place (AIKTC) to make it happen. We are committed to provide education par excellence to our students to become graduates with strong globally acceptable attributes in the exponentially evolving world. It is our innate pride for having attained the status of being “Role model campus” of Anjuman-I-Islam, Mumbai. We honestly impart technical education par excellence leveraging knowledge & skills, nurturing values & characters for holistic human development and global well-being.

# Dean Message



*"Quality education is a partnership between students, teachers, and leaders, and together, we can achieve greatness."*

**DR. RAJENDRA MAGAR**  
Dean, SoET  
AKTC, New Panvel

**"Dream, Believe, Act, Achieve."**

As a dean of the School of Engineering and Technology (SoET), I take great pride to share that the school has the state-of-the-art infrastructure and laboratories. Our faculty members are from diversified domains; they are highly qualified having decades of teaching and industrial experience. We have set a tradition of soaring high with academic excellence and overall personality development of the students. The very purpose of education is to inculcate among the students an ability to think and develop logic to reason out facts and this is achieved by providing them an excellent academic environment.

# Head of Dept Message



*"In education, we don't just impart knowledge; we empower the next generation to shape a better world."*

**PROF. TABREZ KHAN**

HOD, Computer Engineering  
AIKTC, New Panvel

**"Dreams fuel the journey, but action paves the way."**

Dear Learners,

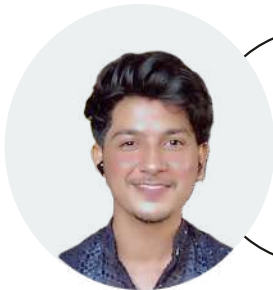
I am thrilled to extend a warm welcome to all of you to the Computer Engineering Department at AIKTC. It is with great pride that I serve as the Head of this dynamic and forward-thinking department. Our dedicated faculty members are not only experts in their respective fields but also passionate educators, committed to providing you with an exceptional learning experience. They bring a wealth of research and industry experience that enriches our curriculum and ensures that our students are exposed to the latest advancements in the field.

# Editorial Board



**Prof. Muhib Lambay**  
Assistant Professor

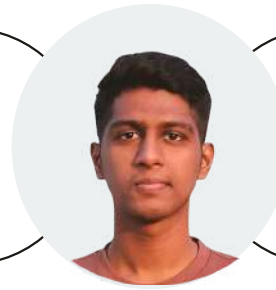
*"We are delighted to present this edition of our department's technical magazine, showcasing the innovative ideas and research contributions of our students and faculty. This magazine serves as a platform to inspire curiosity, creativity, and technological excellence. We extend our gratitude to all contributors and hope this edition ignites a passion for learning and innovation among readers."*



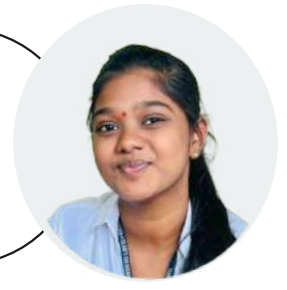
**Mohd. Muzammil Ansari**



**Ayesha Patel**



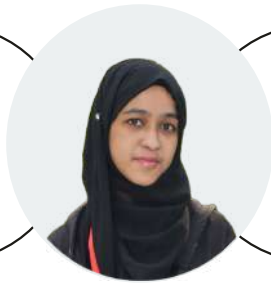
**Nabil Panchkuti**



**Priyanshi Bhoir**



**Sharique Shah**



**Tahira Ansari**



**Anubhav Tripathi**



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## Workholic Coders team received - Best Innovative Idea Award.

- Anam khan
- Umar Syed
- Ukasha Siddiqui
- Kaif sayyed

## VCOMM- Voice Controlled E-Commerce & Project Competition.

- Mapari Simran Hasan
- Fiza Abdulgafoor Aga
- Aditi Balasaheb Patil
- Shaikh Alfiya Shakeel



## Laptop Price Detection System Using Web Scraping.

- Mohammad Farhan
- Shaikh Afsar Ahmed
- Naveed Thokan



# Student Achievements



## Open cricket (1st Position)-Inter Collegiate

- Mohammed Ali Nagori
- Mohammad Farhan

### Students

### Achievements

Umar Farooq

Got Rs.1 Lakh funding for “[ballotindia.com](http://ballotindia.com)” - **Programming Contest**

Usman,Raquib,Huzaifa,Tohid malik

1st runner up : Team Galaxy received a cash prize of Rs. 10000-**Algorithm 7.0**

Dawnak Sufyan,Dolare Daniyal,Baig Hamza Khalid

**Discover-Create-Deploy-Hackathon**

Hamza Khalid Baig

**Shark Tank (1st)-Cultural**

Shaikh Mohd Saif Mohd Mushahid

1st Runner up at Err 404 5.0 -**Hackathon**

## Academic Toppers of B.E. 2023

Rank	Name Of Student	CGPI	Percentage
1	Khan Farhaan Firoz	9.64	83.34 %
2	Siddiqui Ehtesham Aslam	9.52	82.45 %
3	Shikalgar Farhan Umarfaruk	9.45	81.93 %



## Faculty Development Program

- National Symposium on Academic Challenges Towards Implementation of NEP in HEI's-LTJSS's Lokmanya Tilak College of Engineering, Navi Mumbai.
- International Level Faculty Development Program on Data Science using Machine Learning- Pravara Rural Engineering College.
- National Level FDP on "Augmented and Virtual Reality" in association with IEEE Computer Society Pune-Dept Of Information Technology, Vishwakarma Institute Of Information Technology, Kondhana, Pune.

NUSRAT JAHAN



## Faculty Development Program

- Computer Vision in Machine Learning-Datta Meghe College of Engineering
- Data Science using Machine Learning-Pravara Rural Engineering College
- "Python Programming and Its Applications"- Bharatratna Indira Gandhi College of Engineering
- Research Methodology and ethics in research publication-NITTTR, Chandigarh
- SAR, OBE and NBA-NITTTR, Chandigarh

# Faculty Achievements

**SALIM SHAIKH**



**Assistant Professor**

## Faculty Development Program

- FDP on Fundamentals of DevOps-Marathwada Mitra Mandal's College of Engineering-
- National Symposium on Academic Challenges Towards Implementation of NEP in HEI's-LTJSS's Lokmanya Tilak College of Engineering, Navi Mumbai-Bharatratna Indira Gandhi College of Engineering
- Participated 5 Day's Online International Level Faculty Development Program on Data Science using Machine Learning-ExcelR & Pravara Rural College of Engineering Loni
- "Deep Learning"-Ajinkya DY Patil School of Engineering.
- Recent Trends in Artificial Intelligence,IoT and Data Analytic-Sponsored by IEEE Bombay Section, IETE Pune Center and supported by IEEE SB, IETE ISF PCCOER, Ravet Pune.
- Research Methodology and ethics in research publication-NITTTR,Chandigarh.

**SAMREEN BANU KAZI**



**Assistant Professor**

## Faculty Development Program

- Artificial Intelligence, Machine learning & applications-Bharatratna Indira Gandhi College of Engineering
- MATLAB and SIMULINK basics for Hardware Projects-NITTTR, Chandigarh



**Prof. Javed Kazi**  
Head of TPO

The training and placement cell provides placement services to students through campus interviews. Many multinational and well-known Conglomerates regularly visit AIKTC for campus placement every year.

The AIKTC has well established facilities for conducting :

- Written tests,
- Online tests,
- Group Discussions,
- Interviews and
- other activities related to training and placement.

Training and placement cell motivates and prepares the students for the interviews and prospective workplaces. Careful and systematic preparation is initiated and sustained for this purpose.

The placement cell has a faculty and student placement committee which takes focused and continuous efforts for Training and Placement Cell under the able guidance of TPO.

This has resulted in every year all eligible students are placed. Many students also fetch multiple placements. The close rapport developed by the AIKTC with various industries has helped the student community in securing gainful employment

The track record of companies visited for campus placement in recent years is overwhelming and more than 75+ companies visited AIKTC for campus interviews and placements.

The average no of job offers are 200+ for B.E. students and the minimum and maximum average annual pay package is in the range of 3 Lacs to 12 Lacs.

Through campus interviews, the training and placement unit of the department of computer engineering assists students in finding jobs. Every year, a large number of renowned and international conglomerates come to AIKTC for campus placement.

We provide students with well-established facilities like written assessments, online tests, group discussions, interviews, and other training and placement-related activities.

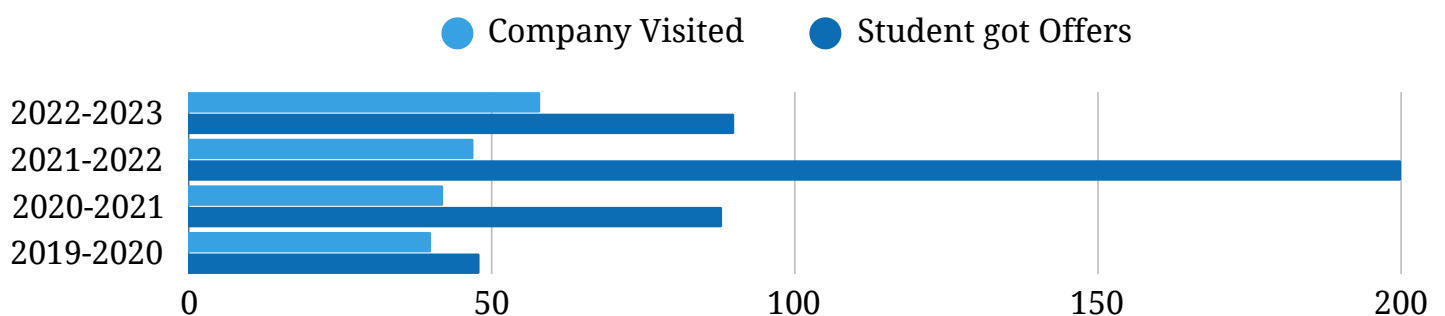
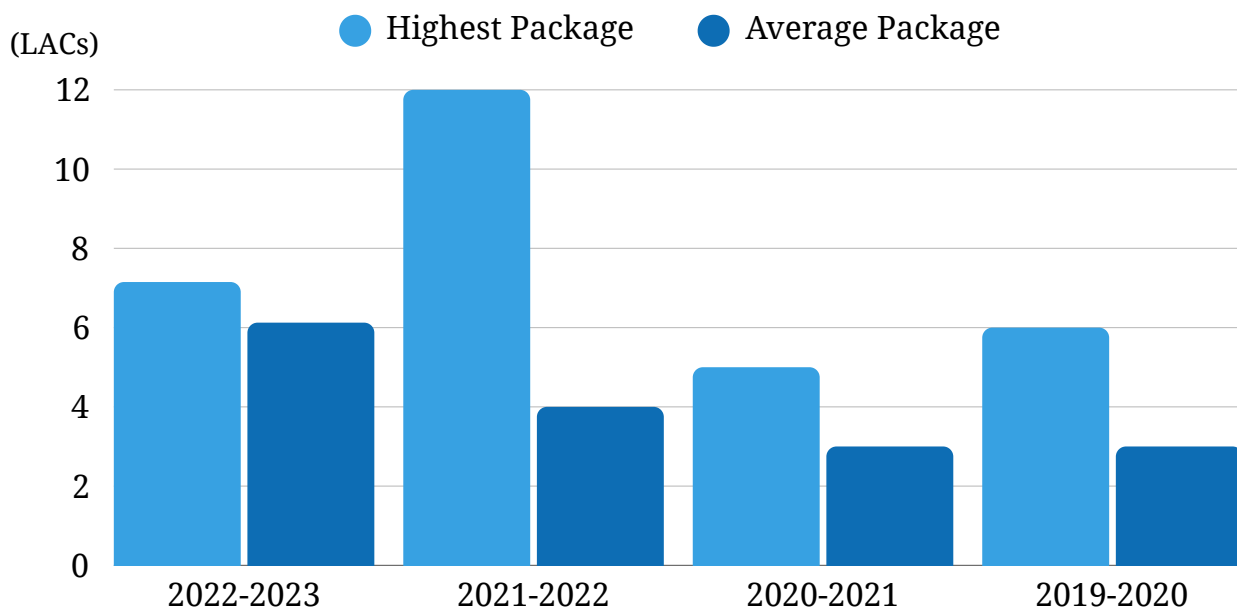
Students are inspired and prepared for interviews and potential jobs by the training and placement cell. To do this, thorough and organized planning is started and maintained.



**Prof. Mukhtar Ansari**  
Training & Placements  
Co-ordinator

# Training & Placements

## Our Recruiters



# Incubation Centre



**Prof Abdul Majid Ansari**  
Head of Incubation  
Centre

Anjuman Islam Kalsekar Incubation Centre helps early-stage startups to develop their product from their idea stage to the funding stage. AIKIC provides the best resources available with them to startups in fields such as training, mentoring, investing opportunities, etc.

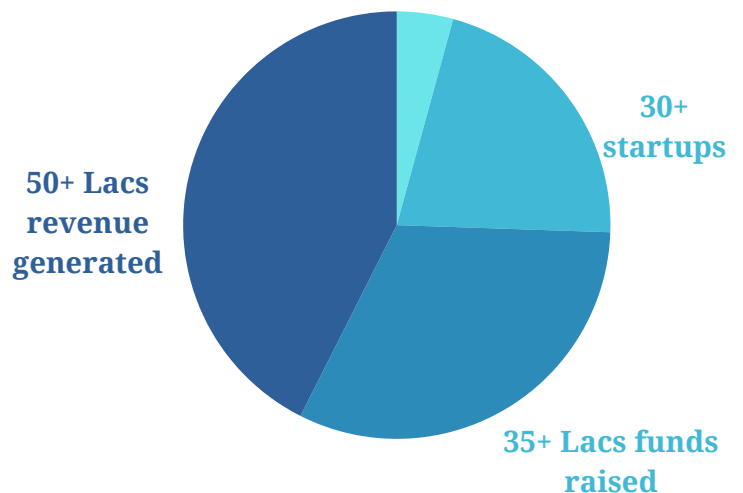
Collaborations : IIM (Jammu) , NIT , Dept of Agriculture (J&K) , CIIA , Riidl and IIT SINE Incubatees etc



## Achievements

- **Conducted Best Startup Idea Award** - An activity was planned on 17th Sep 2022 “Best Startup Idea Award 2022” as a part of Kalsekar Incubation Centre. Overall 17 startups participated successfully in this event.
- **Franchise , Dealership and Investors (Mumbai) Expo World Trade Center** - We got a chance to present our 7 Startup Stalls in World Trade Center Expo on 11 and 12 Nov through ARBA Accelerator (Incubatee of Kalsekar Incubation Centre) absolutely FREE. This expo will provide us an opportunity to interact with investors and distributor networks from the field and collaborations.
- **5 Startups Participated in District level Startup Yatra**
- **Dubai Business Visit by Head of Business Incubation**

6+ registered Startups



Some of our Startups...





## Google Development Student Club



**Prof. Samreen Banu Kazi**  
Faculty Co-ordinator

The GDSC program is a grassroots channel through which Google provides development skills, mobile and web development skills for students, towards employability.

For students to learn development skills, solve problems through technology and inspire them to be world class developers and changemakers. GDSC activities are targeted at University students and any others including faculty members who want to learn development skills & work to solve real-life problems.



**Raza Shaikh**  
Student Co-ordinator



**Siddiqa Shaikh**  
GDSC Lead



**Bushra Khan**  
Technical Expert



**Nadak Zakki**  
Web Expert



**Rehan Rangrez**  
UI/UX Executive

## Programmers Club



A club "For the students by the students" who focus and works to foster a dynamic community of tech enthusiasts, emphasizes student-led initiatives, promotes learning & personal growth also engages in workshops, projects & discussion.

**Vision:** To create a thriving community of tech passionate students that gather to explore, learn & innovate.

**Mission:** To provide platform for students to enhance their tech & programming skills through workshops.



**Saqlain Kalokhe**  
Student Co-ordinator



**Shahdullah Shaikh**  
Technical & Event  
Management



**Ambar Qadri**  
Documentation & Content



**Adil Ahmed**  
Web Development



**Iman Navdekar**  
Marketing & Social Media



The Programmers Club at AIKTC (AI's Kalsekar Technical Campus) hosted a thrilling and intellectually stimulating event—the "ALGORITHM" National Level Hackathon. This 32-hour coding extravaganza attracted programmers, developers, and tech enthusiasts from , all eager to showcase their skills, innovation, and problem-solving abilities. The event, held on 3rd and 4th March 2023 was a resounding success, reflecting the passion and creativity within the tech community. Programmers Club of AIKTC'S COMPUTER ENGINEERING DEPARTMENT provided a remarkable platform for tech enthusiasts to unleash their creativity and problem-solving abilities. It not only showcased the immense talent within the tech community but also encouraged collaboration, learning, and innovation.

We are pleased to highlight the exceptional achievements of our AIKTC students at the recent hackathon event. The team **Trailblazers** from Anjuman-I-Islam's Kalsekar Technical Campus Computer Engineering department emerged as winners, demonstrating their remarkable skills and determination. Additionally, the prestigious title of "Best Innovation Idea" went to **Workaholic Coders**, another team from our campus. These outstanding accomplishments reflect the innovation and talent fostered within our AIKTC community, and we take pride in their remarkable contributions to the field of technology and problem-solving.



**Trailblazers**  
Winner



**Workaholic**  
Best innovative idea

# Algorithm 7.0

## OUTCOMES:

- Participants used technology and programming to develop innovative solutions.
- The winning team was selected based on technical soundness, various parameters, and alignment with SDGs.
- Mr. Nadir Shaikh offered placements to two team members of the winning team.
- Participants gained valuable experience and learned new skills.
- The hackathon raised awareness and created solutions for real-world problems.
- The organizing team also learned various soft skills while coordinating the hackathon, which added to their professional development.

## Event Organisation Team



## Glimpse of Meal & Refreshments



**Galaxy**  
2nd Runner up

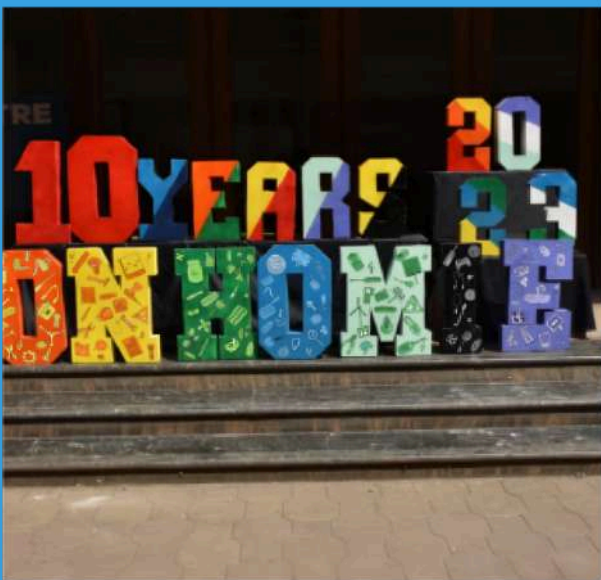


**Web ninjas**  
3rd Runner up

The Council Students (CoST) of Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC) organized the Sports, Cultural and Technical fest- BONHOMIE & FUERZA from 6th to 14th March 2023 with the help and permission of the Director (AIKTC) and Management of Anjuman-I-Islam. Bonhomie imparts friendliness amongst the students of Architecture, Pharmacy and Engineering. Fuerza, on the other hand, puts their technical force into action through various technical competitions. Council students promoted the events and motivated all the students for maximum participation.

On the morning of 6th March 2023, Bonhomie 2023 Fuerza (Sports, Technical, and Cultural Fest) was inaugurated in the AIKTC auditorium. The highlight of the event was the chief guest's speech (Dr. Vijay Kumar, Deputy Commissioner-GST, Maharashtra), who motivated the students by sharing his own school and college days story. The inauguration ceremony was presided over by the President of Anjuman-I-Islam Dr. Zahir Kazi. The President emphasized the importance of public speaking and communication skills for professionals like engineers, pharmacists, and architects. He encouraged the students to participate various cultural events, sports, and technical events, which would help students develop their problem-solving and critical-thinking skills. The President's speech was an inspiration for the students, and his words resonated with the audience, which was evident from the rapturous applause he received at the end of his speech.

The Director Dr. Ramzan Khatik, shared the core objectives of the annual festival Bonhomie 2023 Fuerza. He accented that the participants should not only focus on winning but also inculcate the soft skills like team mentality, sportsmanship, leadership, and ethics. The fest was declared open by Dr. Zahir Kazi, President of Anjuman-I-Islam.



# Bonhomie & Fuerza

Throughout the nine-day fest, students engaged in a multitude of events ranging from exhilarating sports competitions to intellectually stimulating technical challenges and captivating cultural performances. The sports segment witnessed a fervent display of athleticism and team spirit as participants competed in events such as football, basketball, and athletics. Simultaneously, the technical arena buzzed with energy as engineering students showcased their innovative projects and solutions in hackathons, coding contests, and robotics competitions. The cultural events were a vibrant blend of music, dance, drama, and art, reflecting the rich diversity and creativity of the AIKTC student body. Workshops and seminars conducted by industry experts provided invaluable insights and practical knowledge, further enriching the participants' experience. The fest not only served as a platform for students to exhibit their talents and skills but also fostered a sense of unity and camaraderie among the diverse disciplines within the campus. The overwhelming participation and enthusiasm demonstrated by the students underscored the success of Bonhomie & Fuerza 2023, making it a memorable chapter in the history of AIKTC.



## What is ChatGPT?



**ChatGPT** is a natural language processing chatbot driven by generative AI technology that allows you to have human-like conversations and much more. The AI tool can answer questions and assist you with tasks, such as composing emails, essays, and code. ChatGPT was created by OpenAI, an AI and research company. The company launched ChatGPT on November 30, 2022.

## What is ChatGPT used for?

ChatGPT has many functions in addition to answering simple questions. ChatGPT can compose essays, have philosophical conversations, do math, and even code for you.

## How does ChatGPT work?

ChatGPT runs on a language model architecture created by OpenAI called the Generative Pre-trained Transformer (GPT). The specific GPT used by ChatGPT is fine-tuned from a model in the GPT-3.5 series, according to OpenAI. However, with a subscription to ChatGPT Plus, you can access ChatGPT with GPT-4, Open AI's most advanced model. Generative AI models of this type are trained on vast amounts of information from the internet, including websites, books, news articles, and more. The language model was fine-tuned using supervised learning as well as reinforcement learning. The use of Reinforcement Learning from Human Feedback (RLHF) is what makes

ChatGPT especially unique. Through RLHF, human AI trainers provided the model with conversations in which they played both parts, the user and AI assistants, [according to OpenAI](#).

## ChatGPT vs Google

ChatGPT is a language model created to hold a conversation with the end user. A search engine indexes web pages on the internet to help the user find the information they asked for. Therefore, one is not better than the other, as they suit different purposes. If you are searching for up-to-date, accurate information, then a search engine is your best bet. Another major difference is that ChatGPT only has access to information up to 2021, whereas a regular search engine like Google has access to the latest information. So, if you ask the free version of ChatGPT who won the World Cup in 2022, it wouldn't be able to give you a response, but Google would. If you are in search of a platform that can explain complex topics in an easy-to-understand manner, then ChatGPT might be a better alternative.



# *What are ChatGPT's limitations?*

Despite its very impressive capabilities, ChatGPT still has limitations. Users sometimes need to reword questions multiple times for ChatGPT to understand their intent. A bigger limitation is a lack of quality in the responses it delivers -- which can sometimes be plausible-sounding, but make no practical sense, or can be excessively verbose. Instead of asking for clarification on ambiguous questions, the model just guesses what your question means, which can lead to unintended responses to questions. Another major limitation is that ChatGPT's data is limited up to 2021. The chatbot does not have an awareness of events or news that has occurred since then. Lastly, ChatGPT does not provide sources for its responses.

## *Why are some people worried about ChatGPT?*

People are expressing concerns about AI chatbots replacing or atrophying human intelligence. For example, the chatbot can write an article on any topic efficiently (though not necessarily accurately) within seconds, potentially eliminating the need for a human writer. The chatbot can also write an entire essay within seconds, making it easier for students to cheat or avoid learning how to write properly. This even led some school districts to block access to it when ChatGPT initially launched. Now, not only have many of those schools decided to unblock the technology, but some higher education institutions have been embracing interest in AI by catering their academic offerings to AI-related coursework. Another concern with the AI chatbot is the possible spread of misinformation. Since the bot is not connected to the internet, it could make mistakes in what information it shares. The bot itself says: "My responses are not intended to be taken as fact, and I always encourage people to verify any information they receive from me or any other source." OpenAI also notes that ChatGPT sometimes writes "plausible-sounding but incorrect or nonsensical answers".

## *Is ChatGPT a good or bad thing?*

ChatGPT is an advanced chatbot that has the potential to both make people's lives easier and assist with everyday tedious tasks, such as writing emails or navigating the web for answers. However, certain technical details have to be figured out before it's widely used to prevent negative outcomes, including the spread of misinformation. In general, AI and machine learning (ML) models rely on lots of training and fine-tuning to reach a level of ideal performance. So, is AI taking over the world? Not yet, perhaps, but OpenAI's CEO Sam Altman certainly thinks that human-style intelligence in AI is now not that far off. Responding to Musk's comment about dangerously strong AI, Altman tweeted: "I agree on being close to dangerously strong AI in the sense of an AI that poses e.g. a huge cybersecurity risk. and i think we could get to real AGI in the next decade, so we have to take the risk of that extremely seriously too."

## *Can ChatGPT be used for job application assistance?*

Yes, ChatGPT is a great resource to help with job applications. Undertaking a job search can be tedious and difficult, and ChatGPT can help you lighten the load. ChatGPT can build your resume and write a cover letter. If your application has any written supplements in addition to your cover letter, you can use ChatGPT to help you write those essays or personal statements.

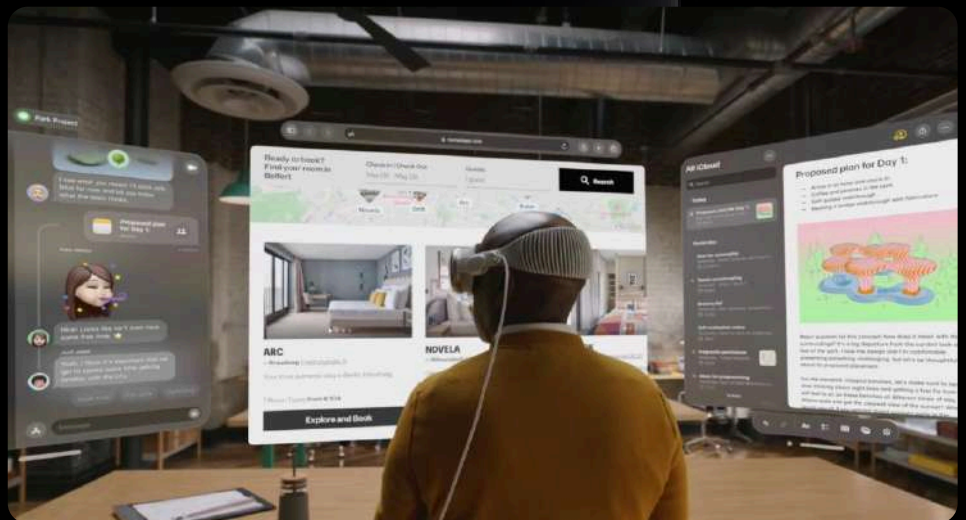
# 7.1 Tech Article: VR a friend?



**Apple Vision Pro** is a mixed-reality headset developed by Apple Inc. It was announced on June 5, 2023, at Apple's Worldwide Developers Conference, the Vision Pro as a "spatial computer" where digital media is integrated with the real world. Physical inputs such as motion gestures, eye tracking, and speech recognition can be used to interact with the system.

Apple Vision Pro breaks new ground in mixed reality with its powerful hardware and innovative software. The dual high-resolution micro-OLED displays, packing a whopping 23 million pixels, create a crystal-clear viewing experience that surpasses even a 4K TV. Under the hood, a dual-chip system featuring the M2 and R1 chips works in concert to deliver smooth graphics, handle complex computer vision tasks, and ensure near real-time data processing with minimal lag. A staggering twelve cameras and various sensors work together to flawlessly track your movements, eye position, and the surrounding environment, making your interactions with the digital world feel natural and immersive.

The software experience is equally impressive. VisionOS, the world's first spatial operating system, seamlessly integrates digital elements into your physical world. Familiar iPhone and iPad apps get a 3D makeover, allowing you to browse the web, take notes, or chat with friends all within your physical space. For enhanced productivity, you can even connect your Mac and use Apple Vision Pro as a giant virtual workspace. This powerful combination of cutting-edge hardware and groundbreaking software positions Apple Vision Pro as a leader in the exciting world of mixed reality.



## ***Is it a friend or foe?***

The company describes the device, which has a starting price of \$3,500, as a "spatial computer," an alternative to a standard laptop or desktop. Apple's ads have shown people using the headset to send e-mails and conduct other mundane two-dimensional tasks, and a June 2023 press release from the company said, "Apple Vision Pro is designed for all-day use." Enthusiastic early adopters have already recorded themselves



using it for dozens of hours on end and even wearing it while sleeping. Yet many experts are skeptical that this kind of headset can or should replace our physical monitors, keyboards and mice. Some worry that using such a device for long periods could lead to motion sickness, new types of social isolation or other unintended consequences.

Apple Vision Pro presents a fascinating paradox a device brimming with potential for both positive and negative impacts. On the bright side, it ushers in a new era of immersive experiences. Imagine traversing the Great Barrier Reef virtually, attending a live concert from your living room, or collaborating with colleagues in a shared 3D workspace that transcends geographical boundaries. Apple Vision Pro could revolutionize education,

allowing students to explore historical events or complex scientific concepts in a fully interactive way. Furthermore, for those with physical limitations, it could open doors to entirely new ways of interacting with the world. Imagine a visually impaired person navigating a virtual grocery store layout or someone with limited mobility attending a museum exhibit virtually.



However, alongside these exciting possibilities lie shadows of concern. The sheer number of cameras and sensors embedded in Apple Vision Pro raises serious privacy questions. Who owns the data collected by these sensors, and how securely is it stored? Could it be hacked or misused? Additionally, spending excessive time in a hyper-realistic virtual world could lead to social isolation and a decline in real-world interactions. The hefty price tag of Apple Vision Pro further limits accessibility, potentially

exacerbating the digital divide. Finally, the long-term health effects of extended use remain unknown. Eye strain, dizziness, and potential negative impacts on mental well-being are all possibilities that require further investigation.

In conclusion, Apple Vision Pro stands at a crossroads. It embodies the potential to revolutionize the way we learn, work, and interact with the world around us. However, its impact hinges on our ability to mitigate potential drawbacks. Ensuring robust data privacy measures, promoting responsible use practices, and conducting thorough health studies are all crucial steps in harnessing the power of Apple Vision Pro for good. Ultimately, the future of this technology rests not just in its impressive hardware and software, but in the ethical and responsible choices we make as users.

## Lets have a quick look on your knowledge:

1) What does CPU stand for?

- a) Computer Processing Unit
- b) Central Processing Unit
- c) Control Processing Unit
- d) Computer Peripheral Unit

2) Which programming language is commonly used for developing Android applications?

- a) Java
- b) Python
- c) C#
- d) Swift

3) What does HTML stand for?

- a) Hyperlink Text Markup Language
- b) Hyper Text Markup Language
- c) Hyper Transfer Markup Language
- d) Hyperlink Transfer Markup Language

4) Which protocol is used for secure communication over a computer network?

- a) HTTP
- b) TCP
- c) FTP
- d) HTTPS

5) What is the binary equivalent of the decimal number 25?

- a) 10100
- b) 11001
- c) 11100
- d) 10011

6) Which data structure follows the Last In, First Out (LIFO) principle?

- a) Queue
- b) Stack
- c) Linked List
- d) Tree

7) In networking, what does LAN stand for?

- a) Large Area Network
- b) Local Area Network
- c) Long-range Area Network
- d) Limited Access Network

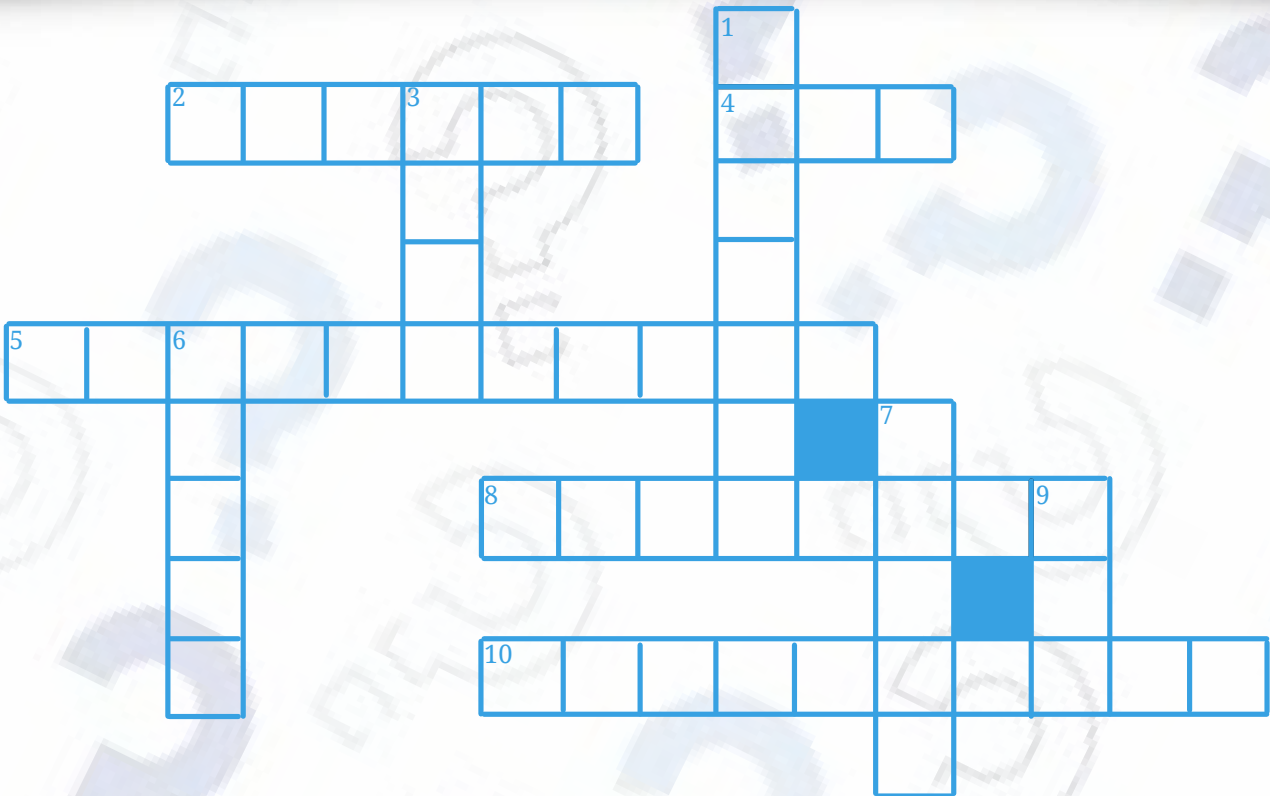
8) Which of the following is not a type of computer memory?

- a) RAM
- b) ROM
- c) CPU
- d) Cache

9) What is the function of a compiler?

- a) Translates high-level language into machine code
- b) Executes the instructions of a program
- c) Stores temporary data during program execution
- d) Manages the resources of a computer

# CROSSWORD



## Across

- 2) Language use for data analysis and machine learning
- 4) Technology that connects every day objects to Internet for various purposes
- 5) Process of converting high level language to machine readable language
- 8) What is the term for attempting to obtain sensitive information via deceptive email or website ?
- 10) Father of modern computer science

## Down

- 1) Operating system developed by Microsoft
- 3) Language that use to create a structure and layout of web pages
- 6) A type of relational database management system
- 7) Popular open source operating system
- 9) Abbreviation for graphical user interface

**Crossword Answers**  
**Across:** 2) Python, 4) IoT, 5) Compilation, 8) Phishing, 10) Alan Turing  
**Down:** 1) Windows, 3) HTML, 6) MySQL, 7) Linux, 9) GUI

**Quizion Answers**  
 1) Central Processing Unit, 2) Java, 3) Hyper Text Markup Language, 4) HTTPS, 5) 11001, 6) Stack, 7) Local Area Network, 8) CPU, 9) Translates high-level language into machine code

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