

Marathwada Mitra Mandal's College of Engineering

Karvenagar, Pune 52

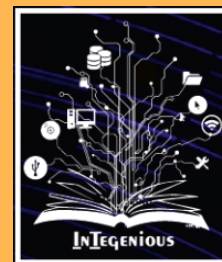
RECIPIENT OF "BEST COLLEGE AWARD 2019" BY SPPU



Department of Information Technology

INTEGENIOUS

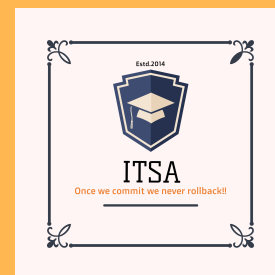
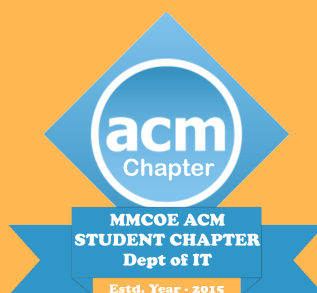
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Highlighting Events

- Three Days Handson Workshop on LaTeX
- Four Days Machine Learning Workshop using Python - ML.py
- Coding Competition - Synertech 2.0

Student Chapters/ Associations



MoU's with Industries





InTegenious



A biannual newsletter from the Department of Information Technology, MMCOE

Volume VI | Issue 2 | |December 2020 – May 2021

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Vision of Department:

To emerge as a centre of excellence in education, research and innovation in Information Technology for enrichment of Society.

Mission of Department:

- To cater industry with engineers having theoretical & practical background and competent IT skills.
- To pursue advanced knowledge in the field of information technology.
- To inculcate budding IT Engineers with professional and interpersonal skills.

Message from HOD

Dear Readers,

I feel glad to introduce you to, our first issue of volume VI, of IT Dept. e-newsletter “InTegenious”. In this issue we have covered almost all the activities of the dept. for Academic Year 2020-21 Sem - II. Major activities I would like to highlight are -4 days’ workshop on Machine Learning, expert lectures on the technologies like LaTeX and many more events.

I appreciate the efforts taken by E-newsletter team and wish them all the best for upcoming issues



Programme Educational Outcomes (PEO's):

PEO 01: Adequate knowledge and skills in Information Technology for implementation of complex problems with innovative approaches.

PEO 02: Inclination and technical competency towards professional growth in the field of Information Technology.

PEO 03: Ethics and value based interpersonal skills to facilitate lifelong learning and societal contributions.

Team InTegenious

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Our Mentor: Dr. Vijaykumar Bidave, HOD IT.

Faculty Editor: Mr. Nikhil Dhavase, Assistant Professor, Dept. of I.T.

Student Editors: Ms. Prajakta Raut, Mr. Omkar Keskar, TE IT.

Student Placement Details

Sr. No	Name of Student	Company	Package (in Lacs)
1	Pooja Jagtap	Enzigma	3
2	Shubham Kamble	Coditas	3.6
3.	Pooja Jagtap		3.6
4.	Pranjal Patil	Volkswagen	5
5.	Shreyas Chate		5
6.	Vinay Karanjkar	Bitwise	3
7.	Shubham Pawar	Persistent	4.5
8.	Ankita Bangale	Aress Software	3.65
9.	Snehal Kadam		3.65
10.	Deepti Dongare	Accenture	4.5
11.	Sanika Abhyankar		4.5
12.	Sanyukta Waghmare		4.5
13.	Nikita Mule		4.5
14.	Muley Pooja Prashant	Infosys	3.6
15.	Atharva Yogesh Inamdar		3.6
16.	Shivam Mathwad		3.6
17.	Rushikesh Bhagwanrao Pede		3.6
18.	Shubham Bhanudas Kamble		3.6
19.	Deepti sadanand dongare		3.6
20.	Swaraj Omprakash Dayma		3.6
21.	Deepika Mohan Jadhav		3.6
22.	Dhruv Shelke	Tata Technologies	4.5
23.	Nikita Mule		4.5
24.	Atharva Inamdar		4.5
25.	Pratiksha Sathe		4.5
26.	Pooja Jagtap	Schlumberger	6.58
27.	Anushka Nalawade	ATOS Global	3.1
28.	Aishwarya Shinkar		3.1
29.	Amey Joshi	Quickheal	5.25
30.	Pratiksha Patwari	NTT Data	3.5
31.	Tejal Mahajan	T-Systems	6
32.	Sushil Ingole	Nihilent	3.5
33.	Pratiksha Patwari	Quickheal	5.25
34.	Rushikesh Pede	Tieto Evry	4.5
35.	Sonali Bhalke		4.5
36.	Prasad Kadam		4.5
37.	Shubham Kondane	Amdocs	4
38.	Devyani Jadhav	HSBC	7
39.	Shivam Mathwad	Script Lanes	4.2
40.	Snehal Kadam	ATOS Global	3.1
41.	Sonali Bhalke		3.1
42.	Snehal Kadam	Capgemini	3.8
43.	Deepika Jadhav		3.8

44.	Aniket Choudhari	Script Lanes	4.2
45.	Sachin Bawdhankar	Capgemini	4
46.	Akash Patil	Accenture	4.5
47.	Amey Joshi	Capgemini	3.8
48.	Rushikesh Pede	Amdocs	4
49.	Archana Chauhan	Accenture	4.5
50.	Arya Kadam	ATOS Global	3.1
51.	Saorav Nachan	Verinite Technologies	2.16
52.	Swaraj Naik	Amazon	4
53.	Sanjana Pisute	IBM	4.25
54.	Prajakta Shewale	Xoriant Technologies	4.5
55.	Pooja Muley	Cognizant	4.5
56.	Milind Deshpande		4.5
57.	Riya chougule		4.1
58.	Rushikesh Pede	Capgemini	3.8
59.	Shubham Kamble		3.8
60.	Shubham Kamble	Volkswagen	5
61.	Shubham Kamble	Amdocs	4
62.	Rekha Mamdage	ATOS Syntel	3.4
63.	Vaidehi Sarap	Wipro	3.5
64.	Rucha Raut	Infosys	3.6

Student Achievements

Sr.No	Name of Student(s)	Achievement Details
1.	Mr. Atharva Dhaigude	First Position in 17th SENIOR ROLL BALL NATIONAL CHAMPIONSHIP 2020

Student Internships

Sr. No	Student Name	Company Name
1.	Aishwarya Shinkar	CarvingIT
2.	Bhargavi Bindu	CarvingIT
3.	Bhakti Bhomaj	CarvingIT
4.	Komal Kulkarni	CarvingIT
5.	Gaurav Bhavsar	CarvingIT
6.	Shivam Mathwad	Script Lanes

Student Publications

Sr No	Name of Author	Paper Title	Journal/Conference
1.	Ms. Patil Pranjal Ms. Patil Utkarsha Ms. Waghmare Sanyukta	Skin Disease Using Svm	IJASRET
2.	Ms. Shruti Kharat Ms. Pratiksha Sathe Ms. Aachal Sawai Ms. Geeta Waghe	Survey Paper on App Recommendation System By Learning User's Interest from Social Media	IJASRET
3.	Ms. Sonali bhalke, Ms. Deepti Dongare, Mr. Atharva Inamdar, Mr. Prasad Kadam	Implementation Of Leveraging File Replication In Data-Intensive Clusters With Energy Adaptability	IJIRCCE
4.	Mr. Anurag Joshi, Mr. Kratik Nagar, Mr. Swapnil Pakhare, Mr. Tejas Kulkarni	Detection Of Urban Emergency Events Using Social Media	IRJMETS

Spoken Tutorial:

Event Name: Spoken Tutorial Online Test

Event Date: October 2020

Venue: MMCOE

Branch	Year	Course Name	Candidates Appeared	Candidates Passed	Passing Percentage
IT	SE	C++	74	68	91.89%
IT	TE	Python	58	52	89.65%
IT	BE	Latex	68	67	98.52%
Computer	SE	Java	112	104	92.85%
Computer	TE	PHP & MySQL	126	122	96.82%
Computer	B.E & ME	SciLab	104	88	84.61%

Workshops & Technical Events Conducted by Department

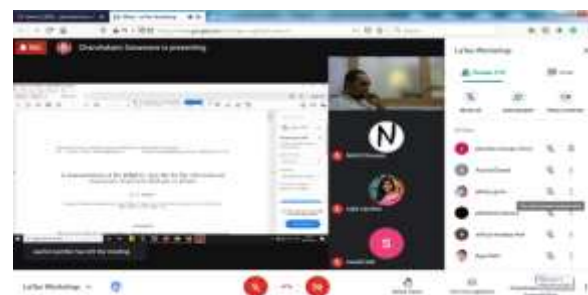
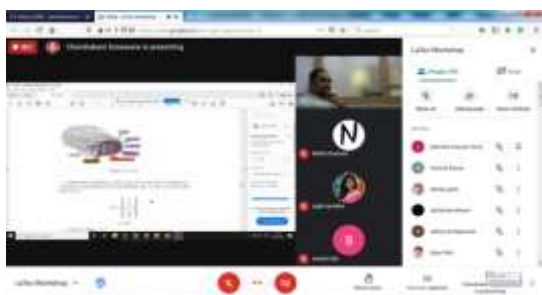
Workshop on Latex

Event Date: 9/3/2021, 11/3/2021 and 12/3/2021

Venue: Google Meet

Department of Information Technology and MMCOE's ACM Student Chapter along with the IT Students Association (ITSA), had organized a workshop on Report Writing using LaTeX for 3rd and 4th-year students on 9th, 11th and 12th of March 2021, 3 PM to 5 PM. around 75 students participated in this workshop. The first day of the workshop started with an introduction ceremony about the workshop and the speaker Dr Chandrakant Sonawane for students and followed by our HOD, respected Dr Vijay Bidve sir sharing his thoughts on the subject. Dr Sonawane sir then educated everyone about the basics of report writing, tags such as begin-end, title, author, date, make title, table of contents, include, find, captions, graphics, cross-references etc.

Followed by it, on the second day, Dr Sonawane sir taught about tables, footnotes, maths symbols, maths formulas, equations, operators and bibliography while writing reports using LaTeX. On the final day, students had to create their report and share its topic with Dr Sonawane sir. In the end, there was a vote of thanks by Samruddhi Velapurkar. The workshop was very knowledgeable for the students.



Parent Teacher Meeting:

Event Date: 18/02/2021

Mode of Conduction: Online through Google meet.

Parent Teacher meeting in current academic year was conducted on 18 th February 2021 through virtual mode on Google meet. The Parent Teacher meeting was conducted as per the following schedule Commencement of Parent Teacher meeting at 3:00 pm with the welcome speech by Mr. Pratik Kamble. Dr.V.S. Bidve, HOD, IT have given the overview about the progress of Department to parents Dr.P.S. Purandare, HOD, Mechanical addressed parents.

Discussion of parents with HOD Dr.V.S. Bidve and faculty members of the department about their concerns. At the end, vote of thanks was given to the Parents by HOD.The parent teacher meeting concluded at 3:30 pm.

Following points were discussed in Meeting:

1. Discussed about the offline academic which is started from 15 th February 2021.
2. Discussed the efforts are taken by department and college for Safety measures of students and faculty.
3. Offline teaching methodology used by department is discussed with parents.
4. Many parents have raised the query about the exam pattern and preparation
5. Dr.V.S. Bidve, Hod, IT guided the parents regarding examination
6. Parents appreciated the effort taken by College and Department in pandemic

Seminars / Guest Lectures Conducted by Department

Sr. No	Name of Resource Person	Designation and Organization	Topic of Lecture	Date	Beneficiary class
1.	Mr. Ravi Patki	Director, Logipool Infotech	Expert Session on Design Pattern (GoF)	12/08/2020	BE
2.	Mr. Mahesh Bodhagire	Director, ecoRise Software Solutions, LLP	Hands on Cloud Platform	18/03/2021	TE, BE

MMCOE ACM Student Chapter Activities

The students selected for the mentioned posts of MMCOE ACM Student chapter (<http://mmcoe.acm.org>), for the AY 2019-20 are as below:

Sr. No	Name of Post	Name of Student
1.	Chairperson	Ms.Rutuja Khire
2.	Vice-Chairperson	Mr.Abhishek Lalwani
3.	Executive Head	Ms.Prajakta Raut
4.	Webmaster	Mr.Harsh Gangawane
5.	Webmaster	Ms.Anushka Vaidya, Mr.Sachin Chavan
6.	Treasurer	Ms.Isha Ghaisas
7.	Co-Treasurer	Ms.Bhakti Bhomaj
8.	Secretary	Ms.Bhargavi Bindu
9.	Joint Secretary	Ms.Sneha Bobde
10.	Event Head	Mr.Pushkar Dashpute
11.	Event Manager	Ms.Isha Kulkarni,

		Mr.Siddhant Jadhav
12.	Social Media Manager	Ms.Swasti Bali, Ms. Anisha Kango
13.	Membership Head	Ms.Samruddhi Velapurkar,Mr.Sham Birajdar
14.	Technical Head	Mr.Yash Dixit

ACM EVENT/WORKSHOP:

ML.py: 4 days Machine Learning workshop

Workshop Date: 8 th to 11 th February, 2021

Platform: ZOOM Meetings

Event Details: -

The ACM Students' Chapter of Marathwada Mitra Mandal's College of Engineering, Pune, in collaboration with Suven Consultants & Technology Pvt Ltd. - IT Recruitment firm, organized a 4 days' workshop "ML.py" for students from various colleges on Machine Learning from 8 th to 11 th February 2021. The objective of the workshop was to learn the basics of ML and build a Recommendation System. The workshop was organized at a national level with around 70 participants from Maharashtra and other states. The event was conducted on Zoom, in association with Give My Certificate as the Certificate Partner. Participants used Google Collab and Kaggle to code in the entire workshop.

Day 1

The Inauguration Ceremony was witnessed by Honourable Principal, Dr. S.M. Deshpande, HOD IT department, Dr. Vijay Kumar Bidave and ACM faculty sponsor, Mr. Nikhil Dhavase & Mrs. Preeti Joshi Ma'am who motivated everyone with their enlightening words. The event commenced with the warm welcome of our distinguished mentor Mr. Rocky Jagtiani, Head - Training & Content development of Suven Consultants & Technology Pvt Ltd. He introduced participants to his IT firm & experience in this domain. Outline of entire workshop was stated. Rocky Sir then explained the use of ML in day-to-day life by giving real life examples like Nike shoes being searched on Amazon and application of ML in it. Then the ML pipeline concept was illustrated. The day concluded with a Q&A session along with assignments for the next day.

Day 2

Day 2 had a refreshing start with a quick recap of day 1. The session headed with inputs of ML pipeline considering the Toy Dataset. Numerous steps like data retrieval, feature engineering, scaling, fitting the data, transforming the data, One Hot Encoding and lastly, modelling of the data were taught. The participants coded alongside the mentor. The session concluded by imparting assignments for the better understanding of concepts.

Day 3

With a fresh start to the workshop, Rocky Sir explained the working of Kaggle Platform for building a recommendation system for movies. Overview about how LinkedIn, Amazon and many other websites recommend People, Products, etc was given. The types of recommendation systems like Content Based recommenders (focused on the product) & Collaborative filtering engines (focused on the user) were explained. The Terms such as NLP (Natural Language Processing), Calculation of Vector of numbers by TF-IDF (Term Frequency – Inverse Document frequency), like Cosine Similarity was described in a very lucid manner.

Day 4

Right from the beginning of the day 4, Rocky Sir explained the logic behind the code and proceeded by coding the enhancing of the recommendation system. Keeping in mind the time constraint, the project key points were highlighted. Everyone was instructed to analyse the outputs. Participants seemed to be satisfied as their code worked and everyone got the desired outputs.

Valedictory Function

The four-day workshop ended with a valedictory function graced by uplifting words of honourable Principal, Dr. S. M. Deshpande, HOD Information Technology department, Dr. Vijay Kumar Bidve. The workshop was a success as it was highly appreciated by the participants. Students were encouraged to explore ML domain aspects further.

The co-ordinators for the Event were: Rutuja Khire, Abhishek Lalwani, Prajakta Raut, Isha Ghaisas, Bhakti Bhomaj, Bhargavi Bindu, Harsh Gangawane, Anushka Vaidya, Sachin Chavan, Yash Dixit, Pushkar Dashpute, Siddhant Jadhav, Isha Kulkarni, Samruddhi Velapurkar, Sham Birajdar, Swasti Bali, Anisha Kango, Vishwajeet Deshmukh.



Synertech 2.0**Event Name: SYNERTECH 2.0****Event Date: 27/05/2021 to 30/05/2021****Venue: Department of Information Technology**

Department of Information Technology in association with MMCOE's ACM Students Chapter had organized a technical event "SYNERTECH 2.0" between 27th May 2021 30th May 2021. The event was a 3-Round competition, in which participants collaboratively, had to put their technical skills and the abilities of working under pressure to the test. 1st round was a preliminary quiz, 2nd was of relay-debugging the code and 3rd being the surprise challenge round. The event fetched a total 75+ participants from the students of all years and branches of MMCOE. Winners and 1st runner ups were rewarded with a cash prize of Rs. 1000/- and Rs. 750/- respectively. All the participants were appreciated with a participation certificate. The event was conducted in Online mode by collaborating ITSA and ACM organization.

IT Students Association (ITSA) Activities

- ITSA is an association of IT department students for the students by the students of the students. ITSA was formed in AY 2014-2015.
- ITSA Student Committee for 2020-21:

Sr. No.	Name of Post	Name of Student
1.	President	Ms.Sonali Suryawanshi
2.	Vice-President	Mr.Abhay Gore
3.	Treasurer	Ms.Madhura magdum
4.	Department General Secretary	Mr.Pushkar Dashpute
5.	ITSA General Secretary	Mr.Bhagyesh Hatwalne
6.	Secretary	Ms.Sejal Sarolkar, Mr.Varun Malpani
7.	Technical Head	Ms.Shruti Bhagwat, Mr.Sachin Chavan
8.	Member	Ms.Vaibhavi Kalinkar
9.	Member	Mr.Omkar Keskar
10.	Member	Mr.Akash Chopade

Result (AY 2020-21 Sem II)

Sr. No	Class	No. of Students Appeared	Passing Percentage
1	SE	85	98.82
2	TE	75	100
3	BE	81	98.77

Our Toppers

Rank	Class	Name of Student	Percentage / CGPA
1	SE	Akare Sharwari Amol	9.89
		Aryan Madhur Hamine	
2		Lokesh Yashwant Yadav	9.75
3		Khedkar Kedar Vidhyadhar	9.64
1	TE	Khire Rutuja Sandeep	10
2		Raut Prajakta Sanjay	10
3		Lalwani Abhishekh Rajesh	10
1	BE	Jagtap Pooja Shivaji	8.9
		Bavdhankar Sachin Chandrakant	
2		Mohite Rutuja Nagesh	8.69
3		Mahajan Tejal Rajendra	8.61
		Sathe Pratiksha Dattatray	

Faculty Highlights









1.Seminar/ Workshop / Conferences Attended:

Sr. No	Topic	Name of Faculty	Particulars
1.	REVIEWER IN “cPGCON-2021” AT SKNCOE, PUNE	Dr. V. S. Bidve	REVIEWER
2.	Workshop on “Outcome based education” by MMCOE Pune	Dr. V. S. Bidve	Workshop
3.	AICTE-ISTE approved Orientation/Refresher Programme on “Improving Excellence in Teaching”	Dr. V. S. Bidve	Orientation/Refresher
4.	Syllabus Revision Workshop -Project Based Learning (PBL) by SPPU	Dr. V. S. Bidve	FOP
5.	Syllabus Revision Workshop -Software Engineering by SPPU	Dr. V. S. Bidve	FOP
6.	Workshop on “Outcome based education” by MMCOE Pune	Ms. P. S. Joshi	Workshop
7.	Syllabus Revision Workshop -DBMS subject by SPPU	Mr. N. S. Dhavase	FOP
8.	Syllabus Revision Workshop – PA subject by SPPU	Mr. P. B. Kamble	FOP
9.	Syllabus Revision Workshop -CG subject	Mr. J. R. Chavan	FOP
10.	Syllabus Revision Workshop -PBL subject	Mr. J. R. Chavan	FOP
11.	“One Week Faculty Development Program on Data Science”	Mr. J. R. Chavan	FDP
12.	Syllabus Revision Workshop – DSA and DSAL SE-IT (2019 course)	Mrs.S. S. Kakad	FOP
13.	AICTE-ISTE approved Orientation/Refresher Programme on “Improving Excellence in Teaching”	Mrs. S. S. Kakad	Orientation/Refresher Programme

2. Faculty Achievements

- a) Dr. V.S. Bidve was invited as Reviewer in cPGCON -2021 at SKNCOE, Pune.
- b) Mrs. Rupali Chopade was invited as Resource Person in One Week FDP on “Cyber Security And Blockchain: Awareness, Use Cases And Challenges (CSB-21)” at COEP, Pune.
- c) Dr. V.S. Bidve was invited as Keynote Speaker at the National Conference on Innovations in Computer Technology and its applications (NCICTA – 2021).
- d) Dr. V.S. Bidve received the best paper award in International Virtual Conference on Emerging Trends in Engineering and Management Sciences (ICETEMS).
- e) Mr. Nikhil Dhavase and Mr. Pratik Kamble filed a patent on “Machine Learning Trained Surveillance Camera System to Stop Theft Before It Performs”.

4. List of faculty members in the Department:**List of Teaching Staff Members**

Name of the Staff & Designation		Name of the Staff & Designation	
Dr. Vijaykumar S. Bidave <i>Associate Professor & Head of the Department</i>		Mrs. Rupali M. Chopade <i>Assistant Professor</i>	
Mrs. Preeti S. Joshi <i>Assistant Professor</i>		Ms. Pranjali R. Kuche <i>Assistant Professor</i>	
Ms. Sheetal A. Kakad <i>Assistant Professor</i>		Mrs. Rashmi M. Bhattad <i>Assistant Professor</i>	
Mr. Nikhil S. Dhavase <i>Assistant Professor</i>		Mr. Pratik B. Kamble <i>Assistant Professor</i>	
Mr. Jitendra R. Chavan <i>Assistant Professor</i>		Meera S. Sawalkar <i>Assistant Professor</i>	
Mrs. Vidya D. Dhere <i>Assistant Professor</i>		Ms Sejal C. Raichura <i>Assistant Professor</i>	

List of Non-Teaching Staff Members

Name of the Staff & Designation		Name of the Staff & Designation	
Mrs. Smita Kari <i>Lab Assistant</i>		Mr. Dinkar R. Patil <i>Technical Assistant</i>	
Mr. Vinayak M. Kulkarni <i>Lab Assistant</i>			

Article: "Teeth for Gesture Control"

Is the completely unobtrusive control of our device really too much to ask? Apparently, that's because every device we own requires us to poke, mourn, or wave to do even the simplest things. It's a little annoying when you're doing most of the things that aren't on the couch. This is especially annoying when doing certain tasks such as washing dishes or riding a motorcycle.

Personally, the ideal control can be used when you want to carefully tell the phone what you want to do, such as when your hands are full, when there is a lot of noise around you, or when you mute incoming calls at dinner. I think it's a thing. Or in many other situations that can be much more serious. At this point the options are limited. Toe control? Tongue control? Let's go easier and have one dental examination of the equipment.

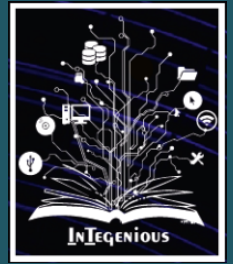
When talking about controlling things with teeth, the concrete way is not to replace the teeth with buttons, small joysticks, and so on. Rather, you can think of it as a system for generating gestures that make your teeth sound at the same time. All you have to do is gently bite into the designated area, creating reproducible sounds and movements that can be detected by the microphone and IMU combination. Researchers have developed a prototype wearable system called Teeth Tap that can recognize and distinguish 13 different tooth-striking gestures with over 90% real-time classification accuracy in a controlled environment. The system uses an IMU just behind the bottom of the ear where the jaw line begins and a contact microphone in the temporal bone behind the ear. Of course, prototypes aren't something everyone wants to wear, but that's just a proof of concept, because the general idea is that electrical devices must be small enough to fit in the frame of headphones, earphones, or even glasses.

During a lengthy test, Teeth Tap managed to work (more or less) while a research participant was talking to one of the researchers, talking, walking, walking around the lab, and writing on paper. It's very noteworthy, even while they are eating and drinking. The system has been tuned to be much more likely to give false negative results, and researchers are already working on optimization strategies to improve accuracy, especially when using the system while driving.

We don't want to take these early works seriously, but to be honest, we hope something comes from Teeth Tap. If integrated as researchers suggest, we would be an avid early adopter.

[Article originally written by: Evan Ackerman - senior editor at IEEE Spectrum]

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I have this hope that there is a better way. Higher-level tools that actually let you see the structure of the software more clearly will be of tremendous value



Guido van Rossum
January 31, 1956

"Creator of the Python Programming Language"