

ExEEd - Fabrication / Model Development

Virtual Mouse

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Aim & Objective



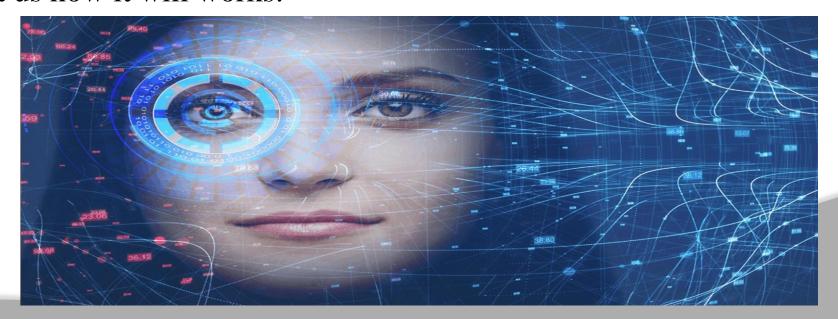
This chapter describes the eye-gaze control of multimedia systems. Several non-intrusive systems for recording eye movements, gaze locations, pupil size, and blink frequencies have been introduced in recent years.



Problem Definition



There are so many people who will feel very discomfort to increase or to decrease the volume or the brightness of the system with their hand movements. So we came with the solution for this problem we can control our system like how the mouse will work without using of our hands. This problem have been solved by Just "Blinking Your Eyes." Yes what you have listened is true we came with the solution for you. Let us how it will works:



Design & Drawings of Prototype (Rough Sketches)



System Requirements:

- I. Hardware Requirement
- Laptop or PC
- I3 processor system or higher
- 4 GB RAM or higher
- 100 GB ROM or higher
- II. Software Requirement
- Laptop or PC
- Windows 7 or higher
- PyCharm community Edition 2022.1.4
- Python (3.8 or 3.9 version)
- Opency python
- Media pipe
- Pyautogui

Background of Idea (Who is it for?)



We observe that these days so many people like handicapped and old people are facing this problem to use their systems. We can see the benefits or solutions for their problem with our idea:

People can make this solution to operate their system and it makes their use easily without any discomfort for them. They can make video calls, sending mails etc. In one word we can say that we can make our eyes to work like mouse for operating the system. Let us see some advantages by using this technique:

- Saves time and efforts.
- The convenience of using different apps and tools.
- Wide variety/range of operations are available.
- Good results and easy approach.
- Get detailed information about the problem.

Background of Idea (What will it do?)



We can compare various methods like using of mouse cursor etc, The working comparison with the help of our proposal here gathers information on working and other options. We can use various websites and presents it to the users. The users can also feel comfortable to use from the best options available. Even we can make different applications can use this by comparing website to study their competitors and form new strategies accordingly to attract new users and stay ahead of their competitors.



Background of Idea (Working)

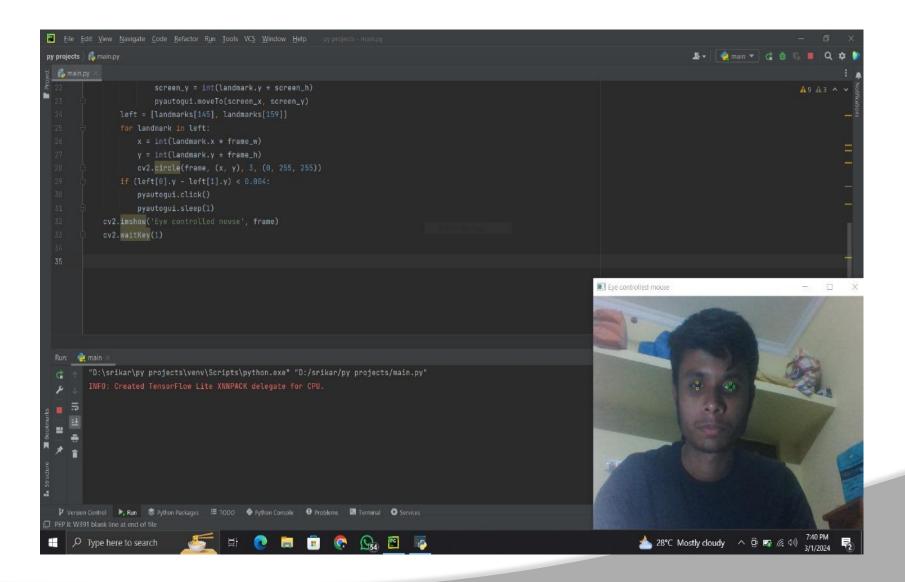


This Eye Control website for will help to compare the other from various apps and applications. This is easy to use and help in different operations. It works like an mini AI machine.









Key Partnerships

- Dell, HP or Lenges
- NVIDIA or AMD
- pychams.
- ASUS or Acur
- McAdess
- Amazon or Best Buy
- Skiltsoft or Physikight

Key Activities

- Market Research
- Define Objectives and Scope
- Form Strategic Pertnerships
- Conceptualization and Design
- Hardware Integration
- Software Development
- Testing and Quality Assurance
- Security Measures
- Marketing and Launch
- Feedback and heration
- Continuous Improvement

Value Propositions

- Natural Interaction
- Enhanced Accessibility
- Efficiency and Speed
- Reduced Physical Street Hands-Free Operation
- Inclusive Design
- Reduced Cognitive Load
- Facial Recognition and Authentication
- Customization and Personalization

Customer Relationships

- somulief in bantons
- external app
- windows operation

Customer Segments

- physically handicaps
- old age people
- RV to americas pruov-
- NO COMPETITORS RECAUSE VIETUAL MOUSE USING EYE TRACKING IS NOT YET IMPLEMENTED IN COMPUTERS OF LAPTOPS

Key Resources

- Eye Tracking Hardware and Software
- Software Development Tools
- Human Expertise in Eye Tracking Technology
- User Interface (UI) and User Experience (UN) Designers
- Accessibility, Liegal and Regulatory Expertise
- Marketing and Sales Team
- Quality Assurance (QA) Tears

Channels

- advertising
- posting in social media

- damo trials in innovation hubs.

Cost Structure

- Eye Tracking Technology 50,000/- to 80,000/-
- hardware cost 500/- to 2000/- idepends on webcam company!
- developers and engineers 2,00,0001-to 5,00,0001-
- Marketing and Promotion 1,00,000/- to 3,00,000/-
- Testing and Quality Assurance 10,00,000:-
- Legal and Compliance 50,000/-
- Customer Support 50,000:- to 1,00,000:-
- Inhastructure and Technology 50,00,000:- to 1,00,00,000
- operational cost 50,000/-
- Total Estimated Cost Range: 4,00,00,000/- to 5,00,00,000/-

Revenue Streams

- product sale
- direct manufactures
- Subscription Model
- Licensing and Royalties
- Partnerships and Collaborations
- Advertising and Data Monetization
- Government and Research Grants
- Event Sponsonihio

Conclusion



We can conclude that this website saves time to a large extent as you compare with other uses. It is easy to apply at affordable prices. Generally, in different systems, different applications can be done. This is how we can conclude the problem solution in operating the systems.

References



Books and Journals:

S. Mitra and T. Acharya, "Gesture Recognition: A Survey," IEEE Transactions on Systems, Man, and Cybernetics, Part C (Applications and Reviews), vol. 37, no. 3, pp. 311-324, May 2007. D. Hansen and Q. Ji, "In the Eye of the Beholder: A Survey of Models for Eyes and Gaze," IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 32, no. 3, pp. 478-500, March 2010.

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Thank you!