

# **AI-Powered Hand Gesture Controlled Robot**

**BACHELOR OF ENGINEERING  
IN  
COMPUTER SCIENCE & ENGINEERING**

**SUBMITTED BY**

**VINAY MESHAM  
PRANIT BONDE**

**ABHISHEK GAWANDE  
SANSKRUTI KADAM**



**UNDER THE GUIDANCE OF  
PROF. T. N. GHORSAD**

**TAKSHASHILA INSTITUTE OF ENGINEERING & TECHNOLOGY,  
DARAPUR, TQ. – DARYAPUR, DIST. – AMRAVATI (M.S.) 444802**

**2024-25**

# **PROJECT REPORT**

**ON**

## **AI-Powered Hand Gesture Controlled Robot**

**BACHELOR DEGREE  
IN  
COMPUTER SCIENCE & ENGINEERING**

**SANT GADGE BABA AMRAVATI  
UNIVERSITY, AMRAVATI**

**SUBMITTED BY**

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TECHNOLOGY,  
DARAPUR, TQ. – DARYAPUR, DIST. – AMRAVATI (M.S.) 444802**

**2024-25**

## CERTIFICATE

This is to certify that **MR. PRANIT BONDE**

of final year has successfully completed the Project *AI-Powered Hand Gesture Controlled Robot* in the complete fulfillment of the Bachelor Degree of *COMPUTER SCIENCE & ENGINEERING* affiliated to

*SANT GADGEBABA AMRAVATI UNIVERSITY, AMRAVATI*  
for the Academic Year 2024 – 25



**PROF. T.N.GHORSAD**  
GUIDE

**PROF. A. A. CHINCHAMALATPURE**  
HEAD OF DEPT.

**DR. D. T. INGOLE**  
PRINCIPAL

**EXTERNAL EXAMINER**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**TAKSHASHILA INSTITUTE OF ENGINEERING**  
**& TECHNOLOGY,**  
DARAPUR, TQ. – DARYAPUR, DIST. – AMRAVATI (M.S.) 444802

**2024-25**

## ACKNOWLEDGEMENT

For the development of this project I acquired co-operation and guidance of many people. Therefore I consider that it's my prime duty to thank to all those who had helped me through its venture. I take this opportunity to show my gratitude towards my guide in the institute to **Prof. T. N. Ghorsad (Computer Science and Engineering)** for his precise guidance and continuous encouragement throughout to see that the project moves in right direction since its commencement to its completion.

I would like to express my deepest gratitude towards **Prof. A. A. Chinchamalature, Head of Department (Computer Science and Engineering)** for his valuable support in the project completion process. I am thankful to **Dr. D. T. Ingole, Principal** of our institution for providing necessary facility during the working on this project.

Last but not least, I am thankful to my Teaching Staff, Non-Teaching Staff, Library Staff members and my friends for their encouragement and suggestion moving towards completion of my project.

Thanking you!

Pranit Bonde  
Final Year B.E  
**Dept. of Computer Science & Engineering**  
**T.I.E.T. Darapur**

## DECLARATION

I hereby declare that the project titled **AI-Powered Hand Gesture Controlled Robot** is an original piece of project work carried out by me under the guidance and supervision of **Prof. T. N . Ghorsad** the information has been collected from genuine and authentic sources. The work has been submitted in the partial submission of the Bachelor Degree of **Computer Science & Engineering** affiliated to **Sant Gadge Baba Amravati University, Amravati**.

I further declare that, to the best of my knowledge and belief, this project work has not been submitted to this or any other university for the award of any other Degree, Diploma or any equivalent courses.

**Mr. Pranit Bonde**  
Final Year  
Computer Science & Engineering