**MAJOR PROJECT REPORT**

**Submitted to**

**KIIT Deemed to be University**

**In Partial Fulfilment of the Requirement for the Award of**

**BACHELOR’S DEGREE IN**

**COMPUTER SCIENCE AND ENGINEERING**

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**November 2024**

**Acknowledgements**

I would like to express my profound gratefulness to **Prof. Pradeep Kumar Mallick,** Professor of **School of Computer Engineering, KIIT Deemed to be University** for his expert guidance and continuous encouragement throughout to see that this project rights its target since its commencement to its completion.

His expertise and insightful feedback were instrumental in navigating the challenges we encountered. His unwavering belief in my capabilities served as a constant source of motivation, encouraging me to persevere and strive for excellence.

In conclusion, Prof. Pradeep Kumar Mallick’s contributions were integral to my project's success. His passion and encouragement fuelled our determination, fostering a collaborative environment conducive to growth. I deeply appreciate his mentorship, dedication, and unwavering support, which were instrumental in shaping my journey toward achievement.

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**ABSTRACT**

This project presents an innovative Bend Detection Model leveraging the power of Open-CV, an advanced bend detection model, to reduce manual bend calculation increasing efficiency and effective resource relocation. The system consists of two primary components: Extracting the column with the required images/shapes and storing them separately, secondly a corner detection algorithm to calculate number of bends. This model aims to reduce bend calculation time which helps reducing the time to provide a quotation to their clients.

**Keywords:** Rebar Bend-Detection Model, Computer Vision, Open-CV, Python, Manufacturing, Efficiency

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