

# Smart Sage: IoT-Driven Home Automation Framework with Predictive Machine Learning

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**Abstract**—In the modern generation, the use of automation or AI has become an integral part of our lives. As a result, today it affects various aspects such as transportation and communication, communication, and even daily household tasks from the time we wake up in the morning to the time we go to sleep at night. Smart home apps are changing the standard of living of people and helping people to do any task very easily, considering this is our endeavor. Nowadays people are more and more attracted towards automation so this paper considers basically how to automate a home or office appliance using machine learning and Arduino Uno. Also, it measures the voltage of the electricity from them to give an idea or framework of what the future electricity demand might be for them.

**Index Terms**—home automation, framework, future predictions, voltage measurements

## I. INTRODUCTION

## II. RELATED WORK

## III. PREPARE YOUR PAPER BEFORE STYLING

### A. Abbreviations and Acronyms

### B. Units

## ACKNOWLEDGMENT

## CONCLUSION

## REFERENCES

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