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**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF NETWORKING AND COMMUNICATIONS**

**18CSP107L / 18CSP108L- MINOR PROJECT / INTERNSHIP**

ACTIVITY PREDICTION   
OF THE ELDERLY

Student 1 Reg No: RA1911028010032

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Batch ID: NWC032089

Guide name and Designation: Mrs. G. Parimala, Assistant Professor

Abstract:

Health care is very important for any human being. With modern time, the need of health care services for elderly people is increasing day by day. The family members of the elderly people have poor work-life balance and rising workloads create a necessity for improved and advanced technology. In many developing countries, senior citizens often live alone and are responsible for managing their own jobs. A product has to be created in order to assure the wellbeing of their physical and mental health using smart gadgets and developing technology. The service requires accurate predictions of their body health using sensors from their smartphones to measure their daily life activities. The product is a web application that tracks movements of the elderly using sensors and then monitors their actions using Artificial Intelligence and Machine Learning techniques such as Decision Tree Classifiers and Logistic Regressors. The project introduces a machine learning-based fall detector as well as a multi-agent architecture for contacting emergency assistance via an input sensor from the web-based monitoring application. Our product estimates to have an accuracy of 0.99 using Decision Tree whereas 0.69 was the accuracy of the model using ANN (taken from the base paper). Due to these techniques, accurate data can be calculated and verified.