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EMOTION DETECTION

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IN

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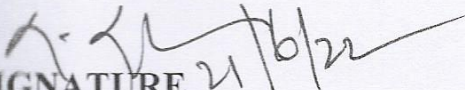
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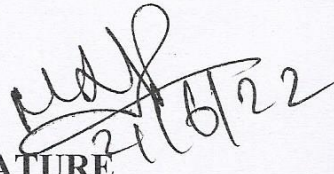


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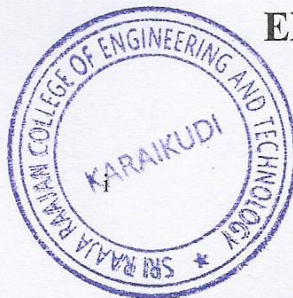
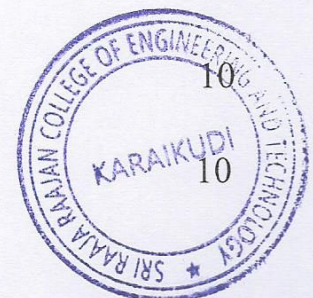


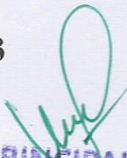
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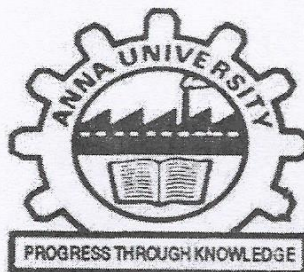

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BEHAVIOR ANALYSIS OF ELECTRIC VEHICLE**

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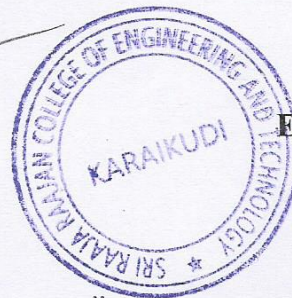
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ABSTRACT

As a key pillar of smart transportation in smart city applications, electric vehicles (EVs) are becoming increasingly popular for their contribution in reducing greenhouse gas emissions. One of the key challenges, however, is the strain on power grid infrastructure that comes with large-scale EV deployment. The solution to this lies in utilization of smart scheduling algorithms to manage the growing public charging demand. Using data-driven tools and machine learning algorithms to learn the EV charging behavior can improve scheduling algorithms. Researchers have focused on using historical charging data for predictions of behavior such as departure time and energy needs. However, variables such as weather, traffic, and nearby events, which have been neglected to a large extent, can perhaps add meaningful representations, and provide better predictions. Therefore we propose the usage of historical charging data in conjunction with weather, traffic, and events data to predict EV session duration and energy consumption using popular machine learning algorithms including random forest, SVM, XGBoost and deep neural networks. The best predictive performance is achieved by an ensemble learning model, with SMAPE scores of 9.9% and 11.6% for session duration and energy consumptions, respectively, which improves upon the existing works in the literature. In both predictions, we demonstrate a significant improvement compared to previous work on the same dataset and we highlight the importance of traffic and weather information for charging behavior predictions.

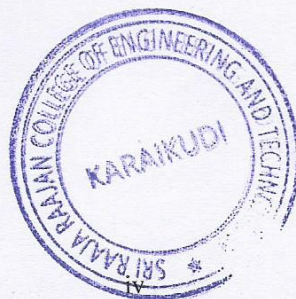


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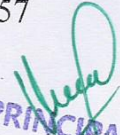
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**DEVELOPMENT OF EMPLOYEE PERFORMANCE
MANAGEMENT SYSTEM**

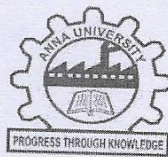
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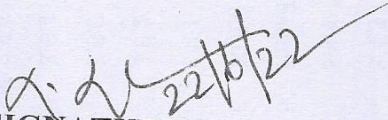
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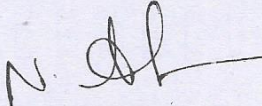
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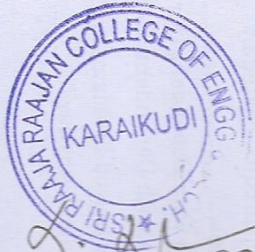
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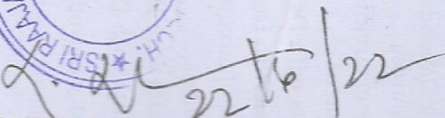

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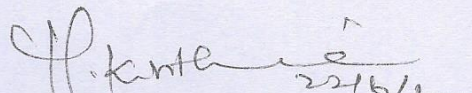
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ABSTRACT

Employee Performance Management System is an system that can be useful to employees and the managers in any functional organization. Error management can be improved by; using errors as learning tools, encouraging discussion about the errors that occur, encouraging top management and leaders in the organization to acknowledge its own errors to the rest of the organization. It is clear, based on the research, that innovative and successful organizations acknowledge the importance of detecting errors and use these errors as ways to continuously improve. Our project is based on problems faced by a manager. The manager faces problems. In order for these problems to be solved, all employees will be registered on database the time they clocked into work, which cars they are working on and how long they took to work on it will be recorded The manager will be able to allocate jobs to the employees. The system is web enabled and it will be possible to access it from anywhere.



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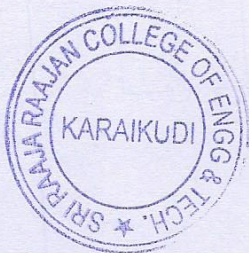


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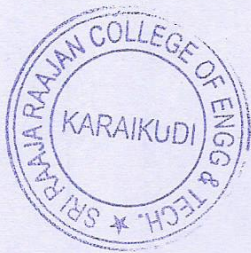
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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

It won't be wrong to say that we are currently living in one of the progressive eras of human history. The massive adoption of technology has now molded our socio-economic system and made it more competitive. And to keep up in this competitive environment, organizations are leaving no stones unturned for enhancing their employees' performance. This is where an employee reward system becomes very useful and gives the organizations a competitive advantage.

Employee reward systems help organizations acknowledge their employees' achievements by praising them with monetary or non-monetary rewards. With such a system, you can implement different types of rewards and recognition ideas that motivate employees to give their best performance.

A well-managed reward system also helps bring down issues like employee turnover and absenteeism. At the same time, it provides a great opportunity for employers to attract the best talents on board.

However, implementing such a system is not that easy, and choosing one could be tricky. Hence, to help the HR managers select the best reward system for their employees.

1.2 BACKGROUND STUDY

Contextual Background

Performance of each employee usually affects not only the employee himself/herself but also a team he/she is working at, department, management and the company, thus, performance is the fundamental aspect of organization's success and productivity (Armstrong, 2013). Reward system is the way to increase organization's productivity and at the same time monitor performance of employees, hence, retaining qualified workforce and attracting new talents.

According to Shields and associates (2015), rewards should be based on differing needs of employees as some employees prefer cash rewards while others are more interested in other incentives such as house, car, paid holidays. From the statement above, it is obvious that an efficient reward system should combine both monetary and non-monetary rewards and incentives to satisfy the needs and expectations of employees towards management and reward system.

(Armstrong, 2013). In contrast, extrinsic motivation is generated by some actions being done for people to motivate them. This motivation occurs from the external sources such as money, grades, criticism or punishments. Extrinsically motivated employees can work on a task even without being interested in it, knowing that the reward will provide them with satisfaction and pleasure after the task being completed. Unfortunately, extrinsic motivation has a short effect on the employees and with the new task to be done new rewards should be offered (Armstrong, 2013). A good balance of extrinsic and intrinsic rewards enables the organisation to maximise employee's commitment, motivation, and job satisfaction which in turn maximises the performance of employees particularly in terms of productivity (Khan, et al. 2013).

Another researcher, Pratheepkanth (2011), found that both intrinsic and extrinsic rewards have strong positive correlation with employees' motivation. As other HR investigators he agrees that positive relationship between motivation and rewards leads to increase in the job satisfaction of employees. Following up, job satisfaction has a positive effect on the perception of job success and achievement of an employee. Pratheep kanth also associates job satisfaction with employee productivity, commitment and loyalty to an organisation.



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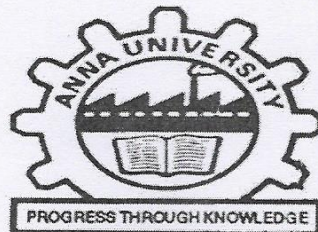
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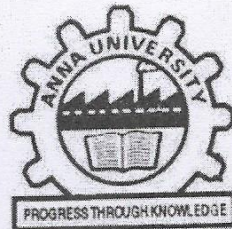
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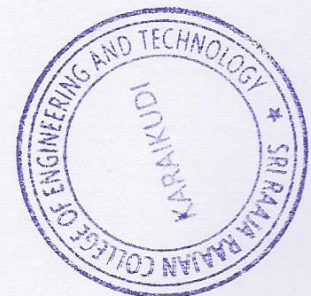
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AUTOMATIC STREET LIGHT SYSTEM

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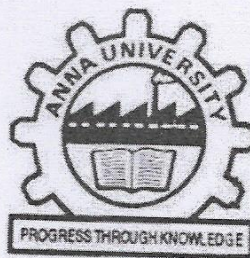
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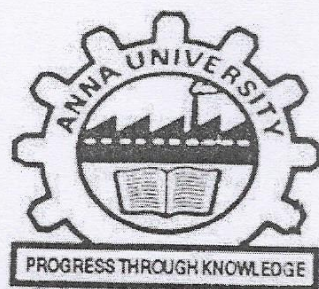
**VIRTUALMEET: RANDOM INTERVAL QUERY AND FACE
RECOGNITION ATTENDANCE SYSTEM FOR VIRTUAL
CLASSROOM USING DEEP LEARNING
REPORT**

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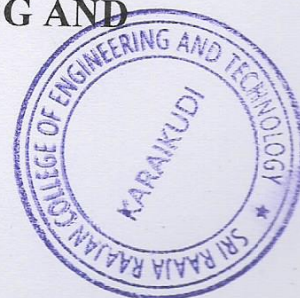
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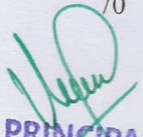


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**DEVELOPMENT OF EMPLOYEE PERFORMANCE
MANAGEMENT SYSTEM**

A PROJECT REPORT

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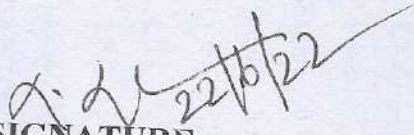
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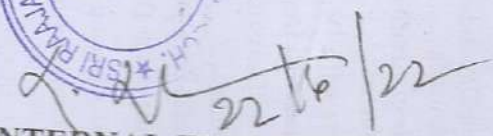

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INTERNAL EXAMINER


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ABSTRACT

Employee Performance Management System is an system that can be useful to employees and the managers in any functional organization. Error management can be improved by; using errors as learning tools, encouraging discussion about the errors that occur, encouraging top management and leaders in the organization to acknowledge its own errors to the rest of the organization. It is clear, based on the research, that innovative and successful organizations acknowledge the importance of detecting errors and use these errors as ways to continuously improve. Our project is based on problems faced by a manager. The manager faces problems. In order for these problems to be solved, all employees will be registered on database the time they clocked into work, which cars they are working on and how long they took to work on it will be recorded The manager will be able to allocate jobs to the employees. The system is web enabled and it will be possible to access it from anywhere.



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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

It won't be wrong to say that we are currently living in one of the progressive eras of human history. The massive adoption of technology has now molded our socio-economic system and made it more competitive. And to keep up in this competitive environment, organizations are leaving no stones unturned for enhancing their employees' performance. This is where an employee reward system becomes very useful and gives the organizations a competitive advantage.

Employee reward systems help organizations acknowledge their employees' achievements by praising them with monetary or non-monetary rewards. With such a system, you can implement different types of rewards and recognition ideas that motivate employees to give their best performance.

A well-managed reward system also helps bring down issues like employee turnover and absenteeism. At the same time, it provides a great opportunity for employers to attract the best talents on board.

However, implementing such a system is not that easy, and choosing one could be tricky. Hence, to help the HR managers select the best reward system for their employees.

1.2 BACKGROUND STUDY

Contextual Background

Performance of each employee usually affects not only the employee himself/herself but also a team he/she is working at, department, management and the company, thus, performance is the fundamental aspect of organization's success and productivity (Armstrong, 2013). Reward system is the way to increase organization's productivity and at the same time monitor performance of employees, hence, retaining qualified workforce and attracting new talents.

According to Shields and associates (2015), rewards should be based on differing needs of employees as some employees prefer cash rewards while others are more interested in other incentives such as house, car, paid holidays. From the statement above, it is obvious that an efficient reward system should combine both monetary and non-monetary rewards and incentives to satisfy the needs and expectations of employees towards management and reward system.

(Armstrong, 2013). In contrast, extrinsic motivation is generated by some actions being done for people to motivate them. This motivation occurs from the external sources such as money, grades, criticism or punishments. Extrinsically motivated employees can work on a task even without being interested in it, knowing that the reward will provide them with satisfaction and pleasure after the task being completed. Unfortunately, extrinsic motivation has a short effect on the employees and with the new task to be done new rewards should be offered (Armstrong, 2013). A good balance of extrinsic and intrinsic rewards enables the organisation to maximise employee's commitment, motivation, and job satisfaction which in turn maximises the performance of employees particularly in terms of productivity (Khan, et al. 2013).

Another researcher, Pratheepkanth (2011), found that both intrinsic and extrinsic rewards have strong positive correlation with employees' motivation. As other HR investigators he agrees that positive relationship between motivation and rewards leads to increase in the job satisfaction of employees. Following up, job satisfaction has a positive effect on the perception of job success and achievement of an employee. Pratheep kanth also associates job satisfaction with employee productivity, commitment and loyalty to an organisation.



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