Department of
Computer Science and Engineering
School of Engineering and Applied Sciences

CERTIFICATE

This is to certify that the work contained in this report titled **"HOUSEHOLD POWER FORECASTING USING DEEP NEURAL NETWORK"** is a bonafide work ofAdarsh Kumar Pal, Rubesh.CV, Karthick. K, Nandhakumar.Tand has been carried outunder our supervision.

Dr. Vipul Kumar Mishra
Assistant professor, CSE
Bennett University

Ms. Shambhavi Mishra
Ph.D. Scholar, CSE
Bennett University

ACKNOWLEDGEMENT

First and foremost we gratefully thank the almighty for their countless blessings which was the ultimate source of our successful completion of this Internship.

We also thank whole heartily Head of the DepartmentProf.DEEPAK GARG, who provide us such platform, support and encouragement all throughout theInternship.

We duly indebted to express our sincere thanks to our mentor Dr. Vipul Kumar Mishra Assistant professor who carefully went through the draft, identified mistakes and suggested various improvements all through our tenure.

Our heart full thank to each one of our family members especially to our loving parents for their kind support, cheerful works, careful advice, blessing and prayers, which veers our study and life to achievement.

At the outset we wish to convey our sincere thanks to the staff members of the Department of computer science and all my friends who helped me.

We express our sincere gratitude to all respondents for their help and co-operation right from the beginning to the completion of our Internship.

ABSTRACT

Our project aims to forecast the power consumption for future in both CNN and RNN. We compare the both outputs and which one gives most precise values. Unlike other machine learning algorithms, convolution neural networks are capable of automatically learning features from sequence data, support multiple- variety data, and can directly output a vector for multi-step forecasting. As such, one-dimensional CNNs have been demonstrated to perform well and even achieve state-of-the-art results on challenging sequence prediction problems.

LIST OF FIGURES

Table of Contents

.