**OPTIMAL SOLAR IRRADIANCE FORECAST USING LSTM-RNN NEURAL NETWORKS**

*Project report submitted*

*in partial fulfilment of the requirement for the degree of*

**Bachelor of Technology**

By

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**16-1-3-066**

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**DEPARTMENT OF ELECTRICAL ENGINEERING**

**NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR**

**DECEMBER-2019**

**CERTIFICATE**

It is certified that the work contained in the project report titled “Optimal Solar Irradiance Forecasting Using LSTM-RNN Neural Networks” by “Bhargav Kadupukutla, Amarinder Singh and Abhay Jaiswal” has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree

**Signature of Supervisor**

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**Dr. Arup Kumar Goswami**

**Department Of Electrical Engineering**

**National Institute Of Technology, Silchar**

**December,2019**

**Declaration**

We declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the

Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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**Date: \_\_\_\_\_\_\_\_\_\_**

**Approval Sheet**

This project report entitled Optimal Solar Irradiance Forecasting Using LSTM-RNN Neural Networks by Bhargav Kadupukutla, Amarinder Singh and Abhay Jaiswal is approved for the

degree of \_\_\_\_\_\_\_\_\_\_\_\_ (Degree details).

**Examiners**

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**Supervisor (s)**

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**Chairman**

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Date: \_\_\_\_\_\_\_\_\_\_\_\_

Place: \_\_\_\_\_\_\_\_\_\_\_\_