

Module Name: Project

Module Code: CHC6096

Assessment Title: Predicting Solar Energy Potential
from Radiance Sky Images using Deep Learning

Student Number: 202118020205

Word Count: 8969

AI Declaration:

Delete as appropriate.

*I **have utilised** the use of AI tool(s) in this assessment.*

I have used the following AI tool(s):

CHAT GPT - Form a basic idea for the background, which can better search for related literature.

CHAT GPT - Provide the ideas of optimizing the CNN models and attention mechanisms and help to analysis the results, which is better to generate better performance and write the report

Deepseek - Help me learn and understand the new domain of Grad-CAM and better build the model explainability

Deepseek - Provide basic ideas of professional issues and risk

Oulu translator: I have written the introduction, model implementation, conclusion in Chinese language and used Oulu Translate to covert these tasks to academic English.