**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.* |