**ACKNOWLEDGEMENT**

This capstone project is an outcome of hard work and support from different people involved directly and indirectly throughout. The contributions of many different people, in their different ways, have made this possible. Iwould like to extend my heartfelt gratitude and acknowledgements for the help of the following people for making this study a reality:

First of all, praises and glory to the **Almighty God**, for His continuous provisions throughout my work to complete this thesis successfully. All of these came from His grace, mercy, and unfailing love. With God nothing is impossible;

I would like to express my gratitude to all of my professors and instructors in NONESCOST and to my adviser **Dr. Kristine T. Soberano** for the guidance, expertise, patience, comments, and suggestion which made this study possible;

Finally, I would like to express my gratitude to my loving wife, **Mrs. Meralynn F. Carton** and the rest of my family, my friends, and all those supportive behind the scene people that always support and encourage all through my study.

**Abstract**

*This study aimed to develop an Alumni Tracker with Job Matching system using Artificial Intelligence (AI) integration. The system collects and analyzes data on alumni's education, work experience, skills, and preferences to provide personalized job recommendations. The study utilized an iterative approach and Agile methodology in the system design, development, testing, deployment, and maintenance phases. The project team used AI algorithms, including Hybrid Filtering, Collaborative Filtering, User Based Content Filtering, and NLP algorithm, to develop an effective job matching system. The system was evaluated based on the ISO 25010 Software Quality Model criteria, and the results indicated that the system met the requirements for reliability, usability, maintainability, security, compatibility, and functional suitability. The Alumni Tracker with Job Matching using AI Integration system sets itself apart from other alumni tracker systems by providing personalized job recommendations and up-to-date information on job openings. The study concludes that the integration of AI in the Alumni Tracker system is highly effective and beneficial for managing alumni data, providing personalized job recommendations through AI job matching and NLP algorithms, and generating detailed reports for alumni, employers, employment rate, and job postings.*

***Keywords:*** ***Artificial Intelligence, Alumni Tracker, Job Matching, Hybrid Filtering, NLP Algorithm***

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