

MBIS673 Research Project Report on

"Exploring the Dual Role of Technostress Creators and Inhibitors: Implications for AI Anxiety, Job Satisfaction, and Technology Use"

ABSTRACT

As technology grows increasingly prominent in all aspects of the workplace, technostress has become a significant challenge to both employee productivity and overall health inside organisations. This study seeks to explore how techno stressors influence employees' AI anxiety, job satisfaction, and technology use. Using the comprehensive frameworks developed by (Nisafani et al., 2020).and Mahapatra et al. (2024). this research investigates how these factors contribute to or mitigate AI anxiety and overall productivity.

The conceptual model evaluates the interconnected relationships between the technostress creators and inhibitors influence AI anxiety, which impacts productivity. According to the hypotheses, technostress creators (e.g., overload and complexity) have a positive relation with AI anxiety, which reduces productivity. Technostress inhibitors (e.g., technical support and self-efficacy) have been suggested to minimise AI anxiety and increase productivity. The analysis finds limited support for these assumptions, with significant connections for some predictors, indicating complicated dynamics. While technostress complexity highly indicates AI anxiety, inhibitors have differing effects, indicating that additional factors may influence AI anxiety.

The Technostress creators; techno-overload, techno-complexity and techno uncertainty, are identified as significant contributors to AI anxiety, a form of psychological strain that can negatively impact job satisfaction and productivity (Tarafdar et al., 2007; Ragu-Nathan et al., 2008). In contrast, technostress inhibitors such as self-efficacy and technical support function as neutralisers, possibly mitigating the negative impacts of AI anxiety. (Nisafani et al., 2020). Therefore, study investigates how the balance of stress-inducing and stress-mitigating factors affects employee perceptions and behaviours towards AI tools (Venkatesh et al., 2003).

INTRODUCTION

As artificial intelligence (AI) tools becoming increasingly important in modern workplaces, they provide both immense advantages for efficiency and creativity, as well as productivity concerns for employees. Among these issues is technostress, a form of stress generated by the complexity and demands of using AI tools (Ragu-Nathan et al., 2008; Tarafdar et al., 2007). Previous research has focused on technostress's drivers, such as system overload and task complexity, which lead to workplace strain and lower job satisfaction (Mahapatra & Ford, 2024). However, there has been less emphasis placed on understanding the impact of technostress inhibitors factors such as self-efficacy, technical support, in mitigating these stressors and reducing concern about artificial intelligence (AI). These inhibitors may be significant in creating a balanced work environment in which the advantages of AI tools can be utilised without overwhelming employees. therefore, this study aims to fill this research gap by examining both the creators and inhibitors of technostress, investigating their effects on AI anxiety, job satisfaction, and productivity within organizational environments.

Moreover, while AI tools can increase productivity and streamline workflows, it also adds new stressors that are different from those connected with traditional tools. Employees frequently experience increased AI anxiety due to fears about job displacement, rapidly evolving AI skills requirements, and the need to constantly adapt to AI tools (Mahapatra & Ford, 2024). As organisations increase their dependence on artificial intelligence, knowing the dual nature of techno stress-inducing (creators) and techno stress-alleviating (inhibitors) factors (Venkatesh et al., 2003). are becomes vital for promoting both productivity and job satisfaction. This study uses a conceptual model to assess the interactions between technostress creators, inhibitors, AI anxiety(strain), and productivity in order to give a thorough understanding of the dual nature of technostress in the workplace. Through hypothesis testing, we aim to determine which aspects of technostress have a significant effect on AI anxiety and productivity, as well as the success of inhibitors in mitigating these adverse effects. The findings are expected to provide useful insights for organisations aiming to promote productive, technologically adaptive, and satisfaction.

In contrast, technostress inhibitors like as self-efficacy and technical support might act as protective techniques, lowering anxiety and allowing employees to interact more favourably with AI tools (Nisafani et al., 2020). However, there are significant gaps in the existing research, which this study attempts to address.

Limited Focus on AI-Specific Technostress. Many existing technostress work fails to distinguish between general technological stress and the specific worries linked with artificial intelligence. Given AI's potential to disrupt existing workflows and bring new types of job-related worries, a dedicated investigation of AI-specific technostress is required to understand its different effects on employee performance (Venkatesh et al., 2003).

Another, potential gap highlighted as Technostress inhibitors which play a moderating role in AI anxiety. While technostress inhibitors like as self-efficacy and technical support are known to reduce overall technostress, their usefulness in decreasing AI-induced anxiety is less understood. Understanding this moderating impact might help organisations develop focused initiatives to promote Adaptability and productivity among employees with AI (Ragu-Nathan et al., 2008).

LITERATURE REVIEW

Craig Brod introduced the word "technostress" in 1984, and it's becoming more of an issue in today's tech-driven industries. (Brod, C. (1984) *Technostress the Human Cost of the Computer Revolution*. Addison-Wesley Publishing Company, Reading, USA. - References - Scientific Research Publishing, n.d.) As information technology (IT) evolves fast and artificial intelligence (AI) becomes more incorporated into our employment, technostress has expanded to include a wide range of stress-related reactions both mental and physical that individuals feel as a result of technology. (Pribbenow, n.d.) This review examines the extensive research on technostress, specifically looking at its causes, strategies for alleviating it, and its impact, especially concerning AI adoption. This review examines the evolution of the concept, identifies key ideas, and evaluates existing research to provide a foundation for understanding the effects of technostress on AI anxiety, job satisfaction, and productivity.

Technostress is now commonly regarded as a type of stress that people suffer as a result of using or being exposed to technology. This condition has two primary dimensions: technostress creators and technostress inhibitors. Technostress factors including techno-overload, techno-invasion, and techno-complexity intensify stress by increasing tasks, limiting personal time, and demanding users learn complicated systems. (Mahapatra & Ford, 2024a). Technostress inhibitors, such as self-efficacy and technical support, help reduce stress by increasing confidence and offering support structures (Ragu-Nathan et al., 2008).

Recent research distinguishes between positive and negative stressors within technostress, particularly with AI integration. The Challenge-Hindrance Stressor Framework classifies AI-driven techno stressors as either challenging (supporting human growth and motivation) or hindering (causing anxiety and resistance) (Chang et al., 2024). Recent research distinguishes between positive and negative stressors within technostress, particularly with AI integration. The Challenge-Hindrance Stressor Framework classifies AI-driven techno stressors as either challenging (supporting human growth and motivation) or hindering (causing anxiety and resistance) (Chang et al., 2024). This dual view contends that, while technostress may cause productivity loss, it may also motivate employees under specific situations, emphasising the complex personal impact of Artificial Intelligence on people.

The concepts of technostress creators and inhibitors are critical for understanding how technostress affects workers in AI-intensive environments. Technostress creators refer to stress-inducing factors such as techno-overload (excessive demands on time and energy), techno-invasion (intrusion into personal life due to constant connectivity), techno-complexity (difficulty understanding and adapting to technology), techno-insecurity (fears about job security), and techno-uncertainty. Nisafani et al. (2020) focus on these stressors, describing how AI concerns contribute to technostress in modern workplace. In contrast, technostress inhibitors are factors that serve to relieve stress. Examples include self-efficacy (confidence in using technology) and technical support (the availability of resources to help with technology-related challenges). These inhibitors have an important role in minimising technostress by increasing employees flexibility and adaptation to change. Venkatesh et al. (2003) give a basic understanding of how techno inhibitors such as self-efficacy helps in understanding the use of Artificial Intelligence. The stronger self-efficacy can reduce AI anxiety and improve user satisfaction with technology. Similarly, Mahapatra et al. (2024) investigate the direct effect of inhibitors on AI anxiety, providing insight into how supportive surroundings might reduce technostress related pressures. Numerous studies have linked technostress with negative effects, particularly in terms of job satisfaction and productivity. Technostress producers may reduce job happiness and productivity by boosting fear about Artificial Intelligence. Tarafdar et al. (2007) show that variables such as techno-complexity and techno-overload can generate strain leading to employee productivity. Further, Ragu-Nathan et al. (2008) highlight how ongoing exposure to technostress creators negatively impacts job satisfaction, making employees feel disconnected and demotivated. The idea of AI anxiety specific stress caused by

AI integration i.e. using of AI tools at workplace is an increasing concern in technostress research. This anxiety is about more than just knowing and using AI tools; it also includes concerns about productivity and the need to adapt to quickly growing, AI tools. Mahapatra and Ford (2024) address this by investigating how AI concern might prevent employees from participating in knowledge-sharing activities, indicating a larger disconnect to collaborate or share knowledge with colleagues at workplace.

While the literature on technostress is immense, there are significant gaps, particular with AI tools related technostress and the impact of inhibitors in various organisational circumstances. Much of the previous research has focused on general technological pressures rather than the specific concern connected with AI. Mahapatra et al. (2024) and other recent studies have begun to address this gap, but more research is needed to fully understand how AI anxiety interacts with other kinds of technostress and impacts productivity and job satisfaction. This study aims to fill these gaps by investigating AI tools stressors and the moderating impacts of inhibitors, including self-efficacy and technical support, in lowering AI anxiety and its negative consequences. By focusing on Artificial Intelligence technostress, this research aims to provide a more detailed understanding of how emerging technologies affect employee productivity because of new AI tools in the workplace.

Despite a substantial research on technostress, significant gaps are present particularly in terms of the specific impact of technostress creators on using AI tools and the success rate of mitigation measures in various workplace environments. Traditional technostress research has mostly concentrated on generalised technology-induced stress, frequently ignoring the various associated with using AI tools. While studies have established that techno-stressors such as overload, complexity, and insecurity are prevalent in technology-driven workplaces, they rarely address the specific anxieties related to concerns of using AI tools skill (Ismail et al., 2023; Turel & Gaudioso, 2018). This absence highlights the need of investigating how AI-tools concerns interact with standard technostress creators and inhibitors to influence productivity. Furthermore, while technostress inhibitors such as technical support have been recognised as possible stress reducers, their influence in AI-intensive environments remains unknown. According to Turel and Gaudioso (2018), competitive cultures can dramatically impact how employees feel and respond to technostress. However, further study is needed to determine if such inhibitors might successfully reduce the increased stress associated with Artificial Intelligence (AI) tools. This study intends to fill these gaps by looking into AI tools

specific techno stressors and the influence of inhibitors such as self-efficacy and technical support on employee productivity.

In summary, the literature reveals a well-developed understanding of technostress creators and inhibitors and their impacts on employee outcomes. Technostress studies have evolved throughout time, from early computer systems to powerful artificial intelligence, to represent the changing issues in today's tech-driven workplace. Ragu-Nathan et al. (2008) and Tarafdar et al. (2007) give basic insights into the stresses that influence employees productivity, whereas Mahapatra et al. (2024) and Nisafani et al. (2020) conduct more recent research on the particular consequences of incorporating AI tools. however, there are still gaps, such as AI Anxiety and the complex function of using AI tools as hurdles in many organisational workplace. This study addresses these gaps, presenting a conceptual model better understanding of reducing AI anxiety and encouraging productivity.

RESEARCH DESIGN AND METHOD

This study addresses a significant difficulty i.e. the influence of technology, particularly AI tools, on employee stress and job satisfaction and productivity. Employees are feeling several kinds of challenges as organisations depend more on innovative technologies like; AI tools. They are dealing with the stress of navigating complex tools, considering the risk of Artificial Intelligence tools taking over their job roles, and seeking to remain efficient in the process. Understanding the interaction between stressors and sources of support becomes essential for businesses looking to find strategies to keep employees satisfied and productive.

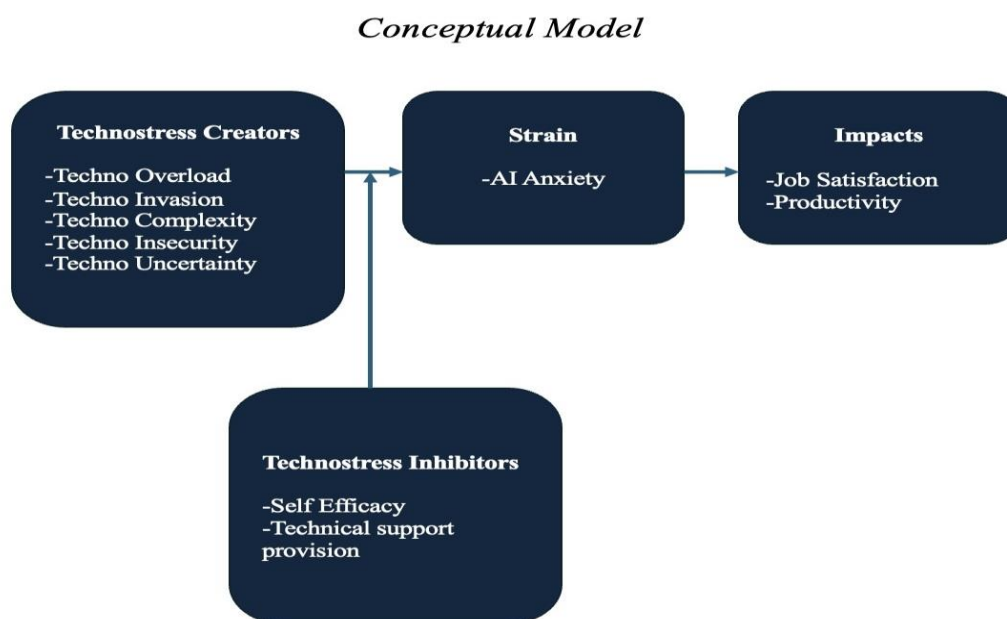
The main focus of this study is how technostress from artificial intelligence (AI) tools impacts employees' anxiety, job satisfaction, and productivity. Specifically, it investigates whether technostress creators, such as becoming overwhelmed by technology or having work-life boundaries violated by increase use of AI tools and decrease productivity. On the other hand, technostress inhibitors like confidence in using AI tools and strong technical support may help reduce anxiety and increase productivity. This study focusses on AI specific technostress, such as concerns about productivity and the need to continually upgrade AI tool skills. As organizations increasingly adopt AI tools, understanding these impacts is crucial, as it brings both exciting potential and significant challenges to the workplace (Mahapatra & Ford, 2024).

The technostress framework (Ragu-Nathan et al., 2008; Tarafdar et al., 2007) explains how technology-related stress impacts employee well-being and performance. Technostress creator, such as being overpowered or invaded by AI are likely to enhance AI anxiety, resulting in lower productivity. In contrast, technostress inhibitors can mitigate these effects, assisting employees in stress management and productivity. This dual focus on creators and inhibitors gives a comprehensive understanding of AI's influence on employees.

The key research question driving this proposal is “ *How do technostress creators and inhibitors influence AI anxiety, job satisfaction and productivity at the workplace by use of Artificial Intelligence tools ?*” This study will look at both the negative and positive aspects of technostress, with an emphasis on how causing stress and mitigating parameters interact in the context of Artificial Intelligence tools.

Conceptual Model

Figure 1



This model explains how **technostress creators** and **technostress inhibitors** influence **AI anxiety**, and how that anxiety, impacts **job satisfaction** and **productivity**.

visually represents the flow:

Technostress Creators → AI Anxiety (Strain) → Productivity.

Technostress Inhibitors → AI Anxiety (mitigation) → Productivity.

Hypothesis

Based on the above conceptual model in Figure 1, here are the hypotheses that align with the relationships illustrated as follows:

| Hypothesis | Relationship | Description | Expected Direction |
|------------|--|--|--------------------|
| H1 | Technostress Creators → AI Anxiety | Technostress creators (e.g., overload, complexity) increase AI anxiety. | Positive |
| H2 | Technostress Inhibitors → AI Anxiety | Self-efficacy and technical support reduce AI anxiety. | Negative |
| H3 | AI Anxiety → Productivity | Higher AI anxiety decreases Productivity | Negative |
| H4 | Technostress Inhibitors → Productivity | Technostress inhibitors (e.g. self-efficacy and tech support) enhance productivity by reducing strain. | Positive |
| H5 | Technostress Creators → Productivity | Technostress creators (e.g., Techno overload) decrease productivity | Negative |
| H6 | Technostress Creators → Productivity | Technostress Creators (e.g., Techno uncertainty)decrease→ Productivity | Negative |

Methodology

Date Collection Method: The study uses a quantitative research approach. A structured survey questionnaire with close-ended questions will be used to collect quantitative data from employees in a focused workplace like a university (teaching and non-teaching staff) and a few participants from my ex-colleagues including employees from my previously served organisations, covering a mixed range of industry and education intuition, job titles, and demographics. The survey questions will assess technostress factors, AI anxiety, job satisfaction, and productivity with established measurement tools like seven point Likert scale.

Sample Size: The sample size for the survey is set at a minimum of 35-50 responses, small size is useful and appropriate statistical data for analysis without causing too much confusion during interpretation.

Data Collection: Survey questions will be on a poster on the UC campus and via LinkedIn/Facebook. A filter question will be used so that only persons over the age of 18 years

and who use /have used AI tools in the workplace participate in the study. Taking part was optional, and answers were gathered anonymously to safeguard privacy.

Analysis: Regression analysis is used to analyse quantitative data and investigate the potential relationships between technostress creators, inhibitors, AI anxiety, job satisfaction, and productivity. Regression analysis are often used for interpretation of data. It also determines the correlations between these techno creators and inhibitors, Strain and impact on job satisfaction and productivity.

Ethical Consideration: Ethical considerations are essential when researching to ensure the rights and dignity of participants are respected. This research followed strict ethical standards to safeguard the safety and welfare of every participant. Based on the guidelines outline by the Human Ethics Committee, this research is considered low risk, It doesn't involve deception, threat, invasion of privacy ,mental, physical or cultural risk or stress, or gathering of illegal information or of personal information of a sensitive nature about or from individuals. The information gathered is limited to their responses provided in this research project. All data will be anonymous. Anyone is free to withdraw at any time. To do this, simply close your browser window or the application (App) the survey is presented on. Any information you have entered up to that point will be deleted from the data set.

Confidentiality: Data collected for this study will be held for up to 5 years for use in publications and archived thereafter for combining/comparing with future data collections. The results of this research project will be published in an MBIS project report, but you may be assured of the confidentiality of any information that you provide, including comments. You will not be identifiable in any publication. All data will be stored on the University of Canterbury's computer network in a password-protected file and the anonymised data from the study will also be made available to only research supervisor and teammate.

Limitations

While the quantitative method provides helpful outcomes, it has limitations. First, survey data may be subject to self-reporting bias, which occurs when participants might underreport or exaggerate their experiences due to social desirability or recollection concerns (Podsakoff et al., 2003). Also, because the study focused on personnel in AI-intensive contexts, the findings may not apply to all industries, particularly those with minimal exposure to AI (Tarafdar et al.,

FINDINGS AND RESULTS

Based on the above conceptual model in Figure 1, here are the six hypotheses that align with the relationships illustrated as follows:

Technostress creators (e.g., overload and complexity) increase AI anxiety.

| SUMMARY OUTPUT | | | | | | RESIDUAL OUTPUT | | | | | | | | PROBABILITY OUTPUT | |
|------------------------|--|--|--|--|--|-----------------|------------------|------------|-----------------|------------|------------|------------|--------|--------------------|--|
| | | | | | | Observation | Predicted strain | Residuals | Inard Residuals | | | Percentile | strain | | |
| Regression Statistics | | | | | | 1 | 7.4988573 | -1.4988573 | -0.347526 | | | 1.38888889 | 3 | | |
| Multiple R | | | | | | 2 | 0.27273236 | 2.7727644 | 0.64287448 | | | 4.16666667 | 4 | | |
| R Square | | | | | | 3 | 0.12675915 | 1.86318768 | 0.43199985 | | | 6.94444444 | 5 | | |
| Adjusted R Square | | | | | | 4 | 0.10107559 | -5.0454258 | -1.1698356 | | | 9.72222222 | 5 | | |
| Standard Error | | | | | | 5 | | 9.68163031 | 11.3183697 | 2.62428422 | 12.5 | | 6 | | |
| Error Observations: 36 | | | | | | 6 | | 10.0454258 | -3.0454258 | -7.061143 | 15.2777778 | | 6 | | |
| | | | | | | 7 | | 10.7730168 | 0.22698319 | 0.05262846 | 18.0555556 | | 6 | | |
| | | | | | | 8 | | 8.04455056 | -3.0445506 | -7.059114 | 20.8333333 | | 6 | | |
| | | | | | | 9 | | 9.13593706 | -3.1359371 | -0.7271003 | 23.6111111 | | 6 | | |
| | | | | | | 10 | | 11.5006078 | -7.5006078 | -1.7390956 | 26.3888889 | | 6 | | |
| | | | | | | 11 | | 13.6833808 | 4.31661918 | 1.000854 | 29.1666667 | | 6 | | |
| | | | | | | 12 | | 13.1376876 | 0.86231243 | 0.19993629 | 31.9444444 | | 6 | | |
| | | | | | | 13 | | 8.22644831 | -2.2264483 | -0.5162257 | 34.7222222 | | 7 | | |
| | | | | | | 14 | | 9.86352806 | -3.8635281 | -0.8958 | 37.5 | | 7 | | |
| | | | | | | 15 | | 11.368123 | 6.86318768 | 1.59130296 | 40.2777778 | | 7 | | |
| ANOVA | | | | | | 16 | | 11.5006078 | 6.49939218 | 1.50695311 | 43.0555556 | | 7 | | |
| | | | | | | 17 | | 10.2273236 | 0.77267644 | 0.17915324 | 45.8333333 | | 10 | | |
| | | | | | | 18 | | 11.5006078 | 0.49939218 | 0.11578938 | 48.6111111 | | 10 | | |
| | | | | | | 19 | | 9.13593706 | 3.86406294 | 0.89592403 | 51.3888889 | | 10 | | |
| | | | | | | 20 | | 8.22644831 | -5.2264483 | -1.2118075 | 54.1666667 | | 11 | | |
| | | | | | | 21 | | 11.3187101 | -5.3187101 | -1.2331994 | 56.9444444 | | 11 | | |
| | | | | | | 22 | | 10.2273236 | -4.2273236 | -0.9801499 | 59.7222222 | | 11 | | |
| | | | | | | 23 | | 7.86265281 | 3.13734719 | 0.72742727 | 62.5 | | 12 | | |
| | | | | | | 24 | | 7.68075505 | -1.6807551 | -0.3897009 | 65.2777778 | | 12 | | |
| | | | | | | 25 | | 11.8644033 | -1.8644033 | -0.4322817 | 68.0555556 | | 12 | | |
| | | | | | | 26 | | 9.13593706 | 0.86406294 | 0.20034217 | 70.8333333 | | 12 | | |
| | | | | | | 27 | | 12.0463011 | -0.0463011 | -0.0107354 | 73.6111111 | | 13 | | |
| | | | | | | 28 | | 9.86352806 | -3.8635281 | -0.8958 | 76.3888889 | | 13 | | |
| | | | | | | 29 | | 12.9557898 | -0.9557898 | -0.22161 | 79.1666667 | | 13 | | |
| | | | | | | 30 | | 10.0454258 | 5.95457419 | 1.38063127 | 81.9444444 | | 14 | | |
| | | | | | | 31 | | 11.5006078 | -4.5006078 | -1.0435137 | 84.7222222 | | 16 | | |
| | | | | | | 32 | | 8.59024381 | -1.5902438 | -0.3687149 | 87.5 | | 16 | | |
| | | | | | | 33 | | 10.9549146 | -3.9549146 | -0.9196889 | 90.2777778 | | 18 | | |
| | | | | | | 34 | | 9.13593706 | 0.86406294 | 0.20034217 | 93.0555556 | | 18 | | |
| | | | | | | 35 | | 8.77214156 | 7.22785844 | 1.67585575 | 95.8333333 | | 21 | | |
| | | | | | | 36 | | 7.31695955 | 4.68304045 | 1.06831267 | 98.6111111 | | 21 | | |
| | | | | | | Intercept | 4.9522888 | 2.43397604 | 2.03464977 | 0.04974435 | 0.00585435 | 9.89872325 | | | |
| | | | | | | tech over | 0.18189775 | 0.08187763 | 2.22158069 | 0.03307312 | 0.0155024 | 0.3482931 | | | |

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regression score) would lead to increased AI Anxiety(strain). Here, dependent variable is Strain (AI anxiety) and independent variable is Techno Overload.

The outcome shows a positive coefficient of 0.1819 in the model, indicating a minor but positive association between Techno overload and strain (AI Anxiety). the coefficient of 0.1819 indicates that for every one-unit increase in techno overload, we could predict strain to rise by around 0.18 units. Tech Overload Coefficient: 0.18 ($p = 0.033$) positive coefficient indicates that when tech overload grows, so does AI Anxiety, which supports your argument. The statistical significance ($p < 0.05$) means this positive effect is unlikely due to chance .In other words, when Technostress grows, so does AI Anxiety, even though to some extent. This positive coefficient supports Hypothesis H1, implying that technostress creators (such as Tech Overload) enhance strain (AI Anxiety). A positive coefficient here indicates that as people experience more tech overload, their AI-related anxiety is likely to increase.

The p-value for Tech Overload is 0.033, which is less than 0.05, suggesting that this coefficient has statistical significance at the 5% level. In statistical words, a p-value indicates a probability that the relationship found (in this example, Techno overload and strain) occurred by randomness. The standard significance level is 0.05, thus our p-value of 0.033 is just on the edge. This "borderline significance" indicates that, while we notice a trend (more Technostress is connected with higher AI Anxiety), we cannot be overly sure about the impact. It's suggestive, which means there's a possible association worth noting, but we'd like a stronger finding (lower p-value) to clearly state that Technostress has a direct influence on AI Anxiety. R Square = 0.127, indicating that Tech Overload contributes for approximately 12.7% of the variance in AI Anxiety. While this is not a significant proportion, it does demonstrate that Tech Overload has some predictive potential for strain (AI Anxiety).

In conclusion, the positive coefficient of 0.1819 for Tech Overload verifies the predicted direction of Hypothesis H1, which states that technostress creators such as overload enhance AI anxiety. This statistically substantial positive association implies that when people experience more techno overload, they become anxious about AI. Thus, the findings confirm Hypothesis H1, indicating a significant and consistent relation among technostress creator and increased strain (AI Anxiety).

Further, using another Technostress creator (techno complexity) to support the table 1.1 hypothesis H1 better.

Table 1.2: H1

| SUMMARY OUTPUT | | | | | | |
|-----------------------|--------------|----------------|------------|------------|----------------|--------------------------------------|
| | | | | | | |
| <hr/> | | | | | | |
| Regression Statistics | | | | | | |
| Multiple R | 0.66435905 | | | | | |
| R Square | 0.44137295 | | | | | |
| Adjusted R Square | 0.42494274 | | | | | |
| Error | 3.49994748 | | | | | |
| Observations | 36 | | | | | |
| <hr/> | | | | | | |
| ANOVA | | | | | | |
| | df | SS | MS | F | Significance F | |
| Regression | 1 | 329.068056 | 329.068056 | 28.8635047 | 9.9427E-06 | |
| Residual | 34 | 416.487499 | 12.2496323 | | | |
| Total | 35 | 745.555556 | | | | |
| <hr/> | | | | | | |
| | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% Lower 95.0% Upper 95.0% |
| Intercept | -0.333083 | 2.09781777 | -0.1587759 | 0.87478478 | -4.5963616 | 3.93019564 -4.5963616 3.93019564 |
| TechComp | 0.32163472 | 0.06205569 | 5.18300152 | 9.9427E-06 | 0.19552239 | 0.44774705 0.19552239 0.44774705 |

This suggests that as Techno Complexity increases, AI Anxiety (Strain) also tends to increase. This aligns with Hypothesis H1, which anticipated a positive relationship.

R Square: 0.4414 - Techno Complexity represents approximately 44.1% of the variance in AI Anxiety. This is a significant percentage, demonstrating that Techno Complexity has a significant influence on AI Anxiety. Considering multiple R is 0.6644 This indicates that there is a strong relation between the independent variable (Techno Complexity) and the dependent

H2: Technostress Inhibitors → AI Anxiety

Self-efficacy and Technical support reduce AI anxiety.

[illegible]

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relationship. The coefficient for self-efficacy is 0.5962, with a P-value of 0.0013, showing statistical significance at common alpha value (also known as the intercept, is the constant in the regression equation that represents the value of the dependent variable when the independent variable is zero), such as 0.05 or 0.01. This coefficient indicates that, contrary to the hypothesis H2, self-efficacy is positively related to AI anxiety. AI anxiety rises by around 0.596 units for every unit of increased self-efficacy. The low P-value for self-efficacy, we may conclude that the association between self-efficacy and AI anxiety is unlikely to be related to chance. However, the direction is opposite to what was actually writing in Hypothesis.

Although there is a positive patterns, the data indicate that there is a significant relationship between Technostress (self-efficacy) and AI Anxiety, but not in the expected manner.

R Square is 0.2646 suggests that self-efficacy represents approximately 26.5% of the variance in AI anxiety, which is appropriate for a single predictor. The correlation (Multiple R) is 0.514, which shows a moderate positive link between self-efficacy and AI anxiety. So, as self-efficacy goes up, AI anxiety also tends to go up. Rather than supporting the idea that self-efficacy minimises AI anxiety, study data shows the opposite. The higher self-efficacy could be related with increased AI anxiety. One possible reason is that as people's confidence in their skills grows (higher self-efficacy), they become more aware of the potential risks or challenges associated with AI, which can lead to increasing anxiety.

In conclusion, The hypothesis H2 predicted a negative association between Technostress Inhibitors (particularly, self-efficacy) and AI anxiety, predicting that increasing self-efficacy will reduce AI anxiety. However, the positive correlation (0.596) shows the opposite as self-efficacy increases, so does strain (AI anxiety). This result does not support the hypothesis H2 rather than it reveals an unexpected effect in which self-efficacy is associated with increased in AI anxiety instead of reducing it.

Therefore, to prove the original hypothesis H2, technostress inhibitors (i.e. technical support) reduce AI Anxiety with an expected negative relationship. another regression results will be analyse. find below mentioned the detailed explanation of hypothesis represent in the table 2.2 H2.

Table 2.2 : H2

| SUMMARY OUTPUT | | | | | | RESIDUAL OUTPUT | | | | PROBABILITY OUTPUT | |
|-----------------------|------------|--|--|--|--|-----------------|------------------|------------|--------------------|--------------------|--------|
| | | | | | | Observation | Predicted strain | Residuals | Standard Residuals | Percentile | strain |
| Regression Statistics | | | | | | 1 | 9.7277388 | -3.7277388 | -0.8228058 | 1.38888889 | 3 |
| Multiple R | 0.19086052 | | | | | 2 | 11.1805181 | 1.81948192 | 0.40160547 | 4.16666667 | 4 |
| R Square | 0.03642774 | | | | | 3 | 9.7277388 | 3.2722612 | 0.72227043 | 6.94444444 | 5 |
| Adjusted R Square | | | | | | 4 | 10.8173233 | -5.8173233 | -1.2840297 | 9.72222222 | 5 |
| Square | 0.00808738 | | | | | 5 | 11.9069077 | 9.09309228 | 2.00707439 | 12.5 | 6 |
| Standard Error | | | | | | 6 | 9.7277388 | -2.7277388 | -0.6020806 | 15.2777778 | 6 |
| Error | 4.59666328 | | | | | 7 | 9.00134916 | 1.99865084 | 0.44115256 | 18.0555556 | 6 |
| Observations | 36 | | | | | 8 | 8.27495953 | -3.2749595 | -0.7228666 | 20.8333333 | 6 |
| | | | | | | 9 | 11.1805181 | -5.1805181 | -1.1434708 | 23.6111111 | 6 |
| | | | | | | 10 | 10.8173233 | -6.8173233 | -1.5047549 | 26.3888889 | 6 |
| | | | | | | 11 | 10.8173233 | 7.18267674 | 1.58539759 | 29.1666667 | 6 |
| | | | | | | 12 | 9.00134916 | 4.99865084 | 1.10332809 | 31.9444444 | 6 |
| | | | | | | 13 | 11.1805181 | -5.1805181 | -1.1434708 | 34.7222222 | 7 |
| | | | | | | 14 | 11.1805181 | -5.1805181 | -1.1434708 | 37.5 | 7 |
| | | | | | | 15 | 10.4541284 | 7.54587156 | 1.66556383 | 40.2777778 | 7 |
| | | | | | | 16 | 11.1805181 | 6.81948192 | 1.50523135 | 43.0555556 | 7 |
| | | | | | | 17 | 10.0909336 | 0.90906638 | 0.20065384 | 45.8333333 | 10 |
| | | | | | | 18 | 9.7277388 | 2.2722612 | 0.50154525 | 48.6111111 | 10 |
| | | | | | | 19 | 9.00134916 | 3.99865084 | 0.88260291 | 51.3888889 | 10 |
| | | | | | | 20 | 9.7277388 | -6.7277388 | -1.4849813 | 54.1666667 | 11 |
| | | | | | | 21 | 9.7277388 | -3.7277388 | -0.8228058 | 56.9444444 | 11 |
| | | | | | | 22 | 11.1805181 | -5.1805181 | -1.1434708 | 59.7222222 | 11 |
| | | | | | | 23 | 9.7277388 | 1.2722612 | 0.28082008 | 62.5 | 12 |
| | | | | | | 24 | 9.7277388 | -3.7277388 | -0.8228058 | 65.2777778 | 12 |
| | | | | | | 25 | 10.4541284 | -0.4541284 | -0.1002376 | 68.0555556 | 12 |
| | | | | | | 26 | 10.4541284 | -0.4541284 | -0.1002376 | 70.8333333 | 12 |
| | | | | | | 27 | 9.7277388 | 2.2722612 | 0.50154525 | 73.6111111 | 13 |
| | | | | | | 28 | 9.00134916 | -3.0013492 | -0.6624733 | 76.3888889 | 13 |
| | | | | | | 29 | 10.4541284 | 1.54587156 | 0.34121277 | 79.1666667 | 13 |
| | | | | | | 30 | 10.0909336 | 5.90906638 | 1.30427972 | 81.9444444 | 14 |
| | | | | | | 31 | 11.1805181 | -4.1805181 | -0.9227456 | 84.7222222 | 16 |
| | | | | | | 32 | 9.7277388 | -2.7277388 | -0.6020806 | 87.5 | 16 |
| | | | | | | 33 | 9.36454398 | -2.364544 | -0.5219144 | 90.2777778 | 18 |
| | | | | | | 34 | 8.27495953 | 1.72504047 | 0.38075986 | 93.0555556 | 18 |
| | | | | | | 35 | 10.4541284 | 5.45487156 | 1.22411348 | 95.8333333 | 18 |
| | | | | | | 36 | 9.7277388 | 2.2722612 | 0.50154525 | 98.6111111 | 21 |
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The hypothesis (H2) proposes that technostress inhibitors (technical support) should reduce strain (AI anxiety). So we predicted a negative relationship as technical support increased, AI anxiety decreased.

The coefficient of technical support is 0.36, indicating a positive relationship. This suggests that as technical support increases, AI anxiety seems to grow significantly, which is contrary to the hypothesis. This coefficient is not statistically significant (p-value=0.26), indicating that the relationship might be due to chance. The p-value of 0.26 for technical support, which is higher than the standard 0.05. This means the result isn't statistically significant. Which indicates that we do not have strong evidence to conclude that the relationship between technical support and AI anxiety is significant.

R-Squared is 3.6%, implying that technical support can only explain 3.6% of the variance in AI anxiety. This tells us that technical support explains only a tiny part of the variance in AI anxiety. This is a low value, indicating that other factors beyond technical support are likely influencing AI anxiety. Technical support doesn't seem to play a major role in AI anxiety. Also, Multiple R value here is 0.19, indicating a weak relationship between technical support and AI

In summary it seems that technical support has no meaningful influence on AI anxiety in this dataset. There might be numerous additional elements impacting AI anxiety that are more powerful than technical support. So, while anticipate technical support to help reduce anxiety, the regression outcome does not support that hypothesis H2. Therefore, Technical support does not appear to reduce AI anxiety, and the relationship observed is weak, non-significant, and in the opposite direction from actual hypothesis.

AI Anxiety (Strain) negatively impacts Productivity.

| SUMMARY OUTPUT | | | | | RESIDUAL OUTPUT | | | | | PROBABILITY OUTPUT | |
|-----------------------|------------|------------|------------|------------|-----------------|-----------------|------------|------------------|------------|--------------------|--|
| | | | | | Observation | Ticited Product | Residuals | indard Residuals | Percentile | Productivity | |
| Regression Statistics | | | | | 1 | 40.7038748 | 2.29612519 | 0.40023582 | 1.38888889 | 21 | |
| Multiple R | 0.31631041 | | | | 2 | 37.8026826 | 11.1973174 | 1.95179583 | 4.16666667 | 21 | |
| | | | | | 3 | 37.8026826 | 1.8026826 | -0.3142242 | 6.94444444 | 21 | |
| R Square | 0.10005228 | | | | 4 | 41.1183308 | 2.88166915 | 0.50230154 | 9.72222222 | 30 | |
| | | | | | 5 | 34.4870343 | 14.5129657 | 2.52974395 | 12.5 | 30 | |
| Adjusted R Square | 0.07358323 | | | | 6 | 40.2894188 | 2.2894188 | -0.3990668 | 15.2777778 | 33 | |
| | | | | | 7 | 38.6315946 | -6.6315946 | -1.1559482 | 18.0555556 | 34 | |
| Standard Error | 5.82068594 | | | | 8 | 41.1183308 | 3.88166915 | 0.67661078 | 20.8333333 | 35 | |
| | | | | | 9 | 40.7038748 | 2.29612519 | 0.40023582 | 23.6111111 | 36 | |
| Error | 36 | | | | 10 | 41.5327869 | 7.46721311 | 1.3016042 | 26.3888889 | 36 | |
| | | | | | 11 | 35.7304024 | 0.26959762 | 0.04699335 | 29.1666667 | 36 | |
| Observations | 36 | | | | 12 | 37.3682265 | -1.3882265 | -0.2419807 | 31.9444444 | 36 | |
| | | | | | 13 | 40.7038748 | 7.29612519 | 1.271782 | 34.7222222 | 36 | |
| ANOVA | | | | | 14 | 40.7038748 | -2.7038748 | -0.4713103 | 37.5 | 36 | |
| | | | | | 15 | 35.7304024 | 6.26959762 | 1.09284876 | 40.2777778 | 36 | |
| | | | | | 16 | 35.7304024 | 2.26959762 | 0.39561182 | 43.0555556 | 36 | |
| | | | | | 17 | 38.6315946 | -5.6315946 | -0.981369 | 45.8333333 | 36 | |
| | | | | | 18 | 38.2171386 | -10.217139 | -1.7809416 | 48.6111111 | 39 | |
| | | | | | 19 | 37.8026826 | 3.19731744 | 0.55732196 | 51.3888889 | 39 | |
| | | | | | 20 | 41.9472429 | 2.05275708 | 0.35781452 | 54.1666667 | 39 | |
| | | | | | 21 | 40.7038748 | -2.7038748 | -0.4713103 | 56.9444444 | 41 | |
| | | | | | 22 | 40.7038748 | -1.7038748 | -0.2970011 | 59.7222222 | 41 | |
| | | | | | 23 | 38.6315946 | -2.6315946 | -0.4587112 | 62.5 | 41 | |
| Regression | 1 | 128.066915 | 128.066915 | 3.77997226 | 0.06018138 | | | | | | |
| Residual | 34 | 1151.93308 | 33.8803849 | | | | | | | | |
| Total | 35 | 1280 | | | | | | | | | |
| | | | | | 24 | 40.7038748 | 2.29612519 | 0.40023582 | 65.2777778 | 41 | |
| | | | | | 25 | 39.0460507 | -0.0460507 | -0.0080271 | 68.0555556 | 43 | |
| | | | | | 26 | 39.0460507 | 1.95394933 | 0.34059141 | 70.8333333 | 43 | |
| | | | | | 27 | 38.2171386 | -10.217139 | -1.7809416 | 73.6111111 | 43 | |
| | | | | | 28 | 40.7038748 | -5.7038748 | -0.9942381 | 76.3888889 | 44 | |
| | | | | | 29 | 38.2171386 | -2.2171386 | -0.3864677 | 79.1666667 | 44 | |
| | | | | | 30 | 36.5593145 | -11.559314 | -2.0148953 | 81.9444444 | 44 | |
| | | | | | 31 | 40.2894188 | 3.71058122 | 0.64678857 | 84.7222222 | 44 | |
| | | | | | 32 | 40.2894188 | 0.71058122 | 0.12386087 | 87.5 | 45 | |
| | | | | | 33 | 40.2894188 | -1.2894188 | -0.2427576 | 90.2777778 | 45 | |
| Intercept | 43.190611 | 2.36367965 | 18.2726182 | 3.7223E-19 | 38.387036 | 47.994186 | 38.387036 | 47.994186 | | | |
| strain | -0.414456 | 0.21317396 | -1.9442151 | 0.06018138 | -0.8476777 | 0.01876558 | -0.8476777 | 0.01876558 | | | |
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The p-value for Strain is 0.060, which is a little higher than the standard significance level of 0.05. This means that, while the relationship is near to being significant, it is not statistically

The analysis indicates that AI Anxiety (Strain) may have a little negative influence on productivity, since higher anxiety levels tend to be associated with less productivity. This is consistent with our prediction, but the impact is not statistically significant ($p\text{-value} = 0.060$), and the model only accounts for 10% of the variance in productivity. This suggests that other variables influence productivity. In conclusion, while there is evidence of a negative relationship, more data or factors would additional support this conclusion.

Technostress inhibitors (e.g. tech support and self-efficacy) enhance productivity by reducing strain.

| SUMMARY OUTPUT | | | | | | RESIDUAL OUTPUT | | | | PROBABILITY OUTPUT | |
|-----------------------|--|--|--|--|--|-----------------|----------------|------------|--------------------|--------------------|--------------|
| | | | | | | Observation | Fitted Product | Residuals | Standard Residuals | Percentile | Productivity |
| Regression Statistics | | | | | | 1 | 38.2104695 | 4.78953049 | 0.83023132 | 1.38888889 | 25 |
| Multiple R | | | | | | 2 | 41.2023745 | 7.79762547 | 1.35166336 | 4.16666667 | 28 |
| R Square | | | | | | 3 | 38.2104695 | -2.2104695 | -0.3831693 | 6.94444444 | 38 |
| Adjusted R Sq | | | | | | 4 | 40.4543983 | 3.54560173 | 0.61460504 | 9.72222222 | 20 |
| Standard Error | | | | | | 5 | 42.698327 | 6.30167296 | 1.09235054 | 12.5 | 32 |
| Observations | | | | | | 6 | 38.2104695 | -0.2104695 | -0.0364834 | 15.2777778 | 33 |
| | | | | | | 7 | 36.714517 | -4.714517 | -0.8172283 | 18.0555556 | 34 |
| | | | | | | 8 | 35.2185645 | 9.78143551 | 1.69554283 | 20.8333333 | 35 |
| | | | | | | 9 | 41.2023745 | 1.79762547 | 0.31160569 | 23.6111111 | 36 |
| | | | | | | 10 | 40.4543983 | 8.54560173 | 1.48131976 | 26.3888889 | 36 |
| | | | | | | 11 | 40.4543983 | -4.4543983 | -0.7721385 | 29.1666667 | 36 |
| | | | | | | 12 | 36.714517 | -0.714517 | -0.1238565 | 31.9444444 | 36 |
| | | | | | | 13 | 41.2023745 | 6.79762547 | 1.17632041 | 34.7222222 | 36 |
| | | | | | | 14 | 41.2023745 | 3.2023745 | -0.555109 | 37.5 | 38 |
| | | | | | | 15 | 39.706422 | 2.29357798 | 0.39757556 | 40.2777778 | 38 |
| | | | | | | 16 | 41.2023745 | -3.2023745 | -0.555109 | 43.0555556 | 38 |
| | | | | | | 17 | 38.9584458 | -5.9584458 | -1.0328545 | 45.8333333 | 38 |
| | | | | | | 18 | 38.2104695 | -10.21047 | -1.7699128 | 48.6111111 | 39 |
| | | | | | | 19 | 36.714517 | 4.285483 | 0.74285824 | 51.3888889 | 39 |
| | | | | | | 20 | 38.2104695 | 5.78953049 | 1.00357426 | 54.1666667 | 39 |
| | | | | | | 21 | 38.2104695 | -0.2104695 | -0.0364834 | 56.9444444 | 41 |
| | | | | | | 22 | 41.2023745 | -2.2023745 | -0.3817661 | 59.7222222 | 41 |
| | | | | | | 23 | 38.2104695 | -2.2104695 | -0.3831693 | 62.5 | 41 |
| | | | | | | 24 | 38.2104695 | 4.78953049 | 0.83023132 | 65.2777778 | 42 |
| | | | | | | 25 | 39.706422 | -0.706422 | -0.124533 | 68.0555556 | 43 |
| | | | | | | 26 | 39.706422 | 1.29357798 | 0.22423262 | 70.8333333 | 43 |
| | | | | | | 27 | 38.2104695 | -10.21047 | -1.7699128 | 73.6111111 | 43 |
| | | | | | | 28 | 36.714517 | -1.714517 | -0.2971994 | 76.3888889 | 44 |
| | | | | | | 29 | 39.706422 | -3.706422 | -0.6424821 | 79.1666667 | 44 |
| | | | | | | 30 | 38.9584458 | -13.958446 | -2.4195981 | 81.9444444 | 44 |
| | | | | | | 31 | 41.2023745 | 7.79762547 | 0.48494864 | 84.7222222 | 44 |
| | | | | | | 32 | 38.2104695 | 2.78953049 | 0.48354543 | 87.5 | 45 |
| | | | | | | 33 | 37.4624933 | 1.53750675 | 0.26651595 | 90.2777778 | 48 |
| | | | | | | 34 | 35.2185645 | 9.78143551 | 1.52219988 | 93.0555556 | 49 |
| | | | | | | 35 | 39.706422 | -5.706422 | -0.989168 | 95.8333333 | 49 |
| | | | | | | 36 | 38.2104695 | -8.2104695 | -1.423227 | 98.6111111 | 49 |
| ANOVA | | | | | | | | | | | |
| | | | | | | df | SS | MS | F | Significance F | |
| Regression | | | | | | 1 | 115.188343 | 115.188343 | 3.36226348 | 0.07547268 | |
| Residual | | | | | | 34 | 1164.81166 | 34.2591664 | | | |
| Total | | | | | | 35 | 1280 | | | | |
| | | | | | | | | | | | |
| | | | | | | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% |
| Intercept | | | | | | 32.2266595 | 3.82055761 | 8.43506701 | 7.5264E-10 | 24.4623522 | 39.9909667 |
| Tech Supp | | | | | | 0.74797625 | 0.40791713 | 1.83364758 | 0.07547268 | -0.0810111 | 1.5769636 |

This positive correlation suggests that when the level of support (technical assistance) rises, so does productivity increase. This is consistent with Hypothesis H4.

In summary this regression outcome provide partial support for Hypothesis 4. The positive coefficient supports the idea that self-efficacy as a technostress inhibitor would increase productivity. However, the impact is not statistically significant ($p\text{-value} > 0.05$), indicating that there is insufficient evidence to firmly confirm the relationship in this dataset.

Technostress creators (i.e., techno overload) decrease productivity

| SUMMARY OUTPUT | | | | | | RESIDUAL OUTPUT | | | | PROBABILITY OUTPUT | |
|-----------------------|------------|--------------|------------|-------------------|------------|-----------------|------------|------------|--------------------|--------------------|-------------|
| | | | | | | Observation | Y | Adjusted Y | Standard Residuals | Percentile | Probability |
| Regression Statistics | | | | | | 1 | 41.4686804 | 1.5313196 | 0.26200373 | 1.38888889 | 2 |
| Multiple R | 0.25678767 | R Square | 0.06593991 | Adjusted R Square | 0.03846755 | 2 | 38.8901748 | 10.1098252 | 1.72975772 | 4.16666667 | 2 |
| | | | | | | 3 | 38.0306729 | -2.0306729 | -0.3474414 | 6.94444444 | 2 |
| | | | | | | 4 | 39.0620751 | 4.93792486 | 0.84486264 | 9.72222222 | 3 |
| | | | | | | 5 | 39.4058759 | 5.95412411 | 1.64152296 | 12.5 | 3 |
| | | | | | | 6 | 39.0620751 | -1.0620751 | -0.18171715 | 15.27777778 | 3 |
| Standard Error | 5.92997598 | Observations | 36 | ANOVA | | 7 | 38.3744736 | -6.3744736 | -1.0906514 | 18.05555556 | 3 |
| | | | | | | 8 | 40.9529793 | 0.04702072 | 0.89243188 | 20.83333333 | 3 |
| | | | | | | 9 | 39.921577 | 3.07842798 | 0.52670801 | 23.61111111 | 3 |
| | | | | | | 10 | 37.6868721 | 11.3131279 | 1.93563883 | 26.38888889 | 3 |
| | | | | | | 11 | 35.6240676 | 0.37593239 | 0.06432079 | 29.16666667 | 3 |
| | | | | | | 12 | 36.1397687 | -0.1397687 | -0.023914 | 31.94444444 | 3 |
| | | | | | | 13 | 40.7810789 | 7.2189211 | 1.23513357 | 34.72222222 | 3 |
| | | | | | | 14 | 39.2339755 | -1.2339755 | -0.2111291 | 37.5 | 3 |
| | | | | | | 15 | 38.0306729 | 3.96932712 | 0.67913877 | 40.27777778 | 3 |
| | | | | | | 16 | 37.6868721 | 0.31312787 | 0.05357515 | 43.05555556 | 3 |
| | | | | | | 17 | 38.8901748 | -5.8901748 | -1.0077895 | 45.83333333 | 3 |
| | | | | | | 18 | 37.6868721 | -9.6868721 | -1.6573918 | 48.61111111 | 3 |
| | | | | | | 19 | 39.921577 | 1.07842298 | 0.18451461 | 51.38888889 | 3 |
| | | | | | | 20 | 40.7810789 | 3.2189211 | 0.55074677 | 54.16666667 | 3 |
| | | | | | | 21 | 37.8587725 | 0.1412275 | 0.02416356 | 56.94444444 | 4 |
| | | | | | | 22 | 38.8901748 | 10.9862524 | 0.01879074 | 59.72222222 | 4 |
| | | | | | | 23 | 41.1248797 | -5.1248797 | -0.87885 | 62.5 | 4 |
| | | | | | | 24 | 41.29678 | 1.70321997 | 0.29141531 | 65.27777778 | 4 |
| | | | | | | 25 | 37.3430714 | 1.65692863 | 0.28349502 | 68.05555556 | 4 |
| | | | | | | 26 | 39.921577 | 1.07842298 | 0.18451461 | 70.83333333 | 4 |
| | | | | | | 27 | 37.171171 | -9.171171 | -1.5691571 | 73.61111111 | 4 |
| | | | | | | 28 | 39.2339755 | -4.2339755 | -0.7244192 | 76.38888889 | 4 |
| | | | | | | 29 | 36.3116691 | -0.3116691 | -0.0532756 | 79.16666667 | 4 |
| | | | | | | 30 | 39.0620751 | -14.062075 | -2.4059746 | 81.94444444 | 4 |
| | | | | | | 31 | 37.6868721 | 6.31312787 | 1.08015534 | 84.72222222 | 4 |
| | | | | | | 32 | 40.4372781 | 0.56272185 | 0.09627985 | 87.5 | 4 |
| | | | | | | 33 | 38.2025733 | 0.79742675 | 0.13643708 | 90.27777778 | 4 |
| | | | | | | 34 | 39.921577 | 0.07842298 | 0.01290471 | 93.05555556 | 4 |
| | | | | | | 35 | 40.2653778 | -6.2653778 | -1.0719855 | 95.83333333 | 4 |
| | | | | | | 36 | 41.6405808 | -11.640581 | -1.9916649 | 98.61111111 | 4 |
| | | | | | | 37 | 38.8901748 | 10.1098252 | 1.72975772 | 101.44444444 | 4 |
| | | | | | | 38 | 38.0306729 | -2.0306729 | -0.3474414 | 104.22222222 | 4 |
| | | | | | | 39 | 39.0620751 | 4.93792486 | 0.84486264 | 107.0 | 4 |
| | | | | | | 40 | 39.4058759 | 5.95412411 | 1.64152296 | 109.77777778 | 4 |
| | | | | | | 41 | 39.0620751 | -1.0620751 | -0.18171715 | 112.55555556 | 4 |
| | | | | | | 42 | 38.3744736 | -6.3744736 | -1.0906514 | 115.33333333 | 4 |
| | | | | | | 43 | 40.9529793 | 0.04702072 | 0.89243188 | 118.11111111 | 4 |
| | | | | | | 44 | 39.921577 | 3.07842798 | 0.52670801 | 120.88888889 | 4 |
| | | | | | | 45 | 37.6868721 | 11.3131279 | 1.93563883 | 123.66666667 | 4 |
| | | | | | | 46 | 35.6240676 | 0.37593239 | 0.06432079 | 126.44444444 | 4 |
| | | | | | | 47 | 36.1397687 | -0.1397687 | -0.023914 | 129.22222222 | 4 |
| | | | | | | 48 | 40.7810789 | 7.2189211 | 1.23513357 | 132.0 | 4 |
| | | | | | | 49 | 39.2339755 | -1.2339755 | -0.2111291 | 134.77777778 | 4 |
| | | | | | | 50 | 38.0306729 | 3.96932712 | 0.67913877 | 137.55555556 | 4 |
| | | | | | | 51 | 37.6868721 | 0.31312787 | 0.05357 | 140.33333333 | 4 |

The above table 5 H5 includes productivity as a dependent variable and technostress creator as an independent variable. As shows the regression outcome and help us to determine whether this data supports Hypothesis 5, which states that Technostress Creators (i.e., techno overload) have a negative influence on productivity.

The coefficient for Techno Overload is -0.1719, indicating a negative relationship between technology overload and productivity. This aligns with the hypothesis, as it indicates that an increase in techno overload is associated with a decrease in productivity. The p-value for Tech Over is 0.1306, which above the standard accepted significance level (e.g., 0.05). This suggests that, while the relationship is negative, it is not statistically significant at the 5% level.

The R-squared value of 0.0659 indicates that techno overload explains for approximately 6.6% of the variance in productivity. This is a low R-squared value, indicating that variables other than technological overload are likely to have a substantial influence in influencing productivity. since, the negative coefficient supports the hypothesis, the lack of statistical significance ($p > 0.05$) indicates that we cannot conclude that techno overload affects productivity based just on this sample.

The findings indicate a negative relation between techno overload and productivity, which confirms the hypothesis H5.

H6: Technostress Creators → Productivity

Technostress Creators (e.g., Techno uncertainty)decrease→ Productivity

Table 6. H6

| SUMMARY OUTPUT | | | | | | RESIDUAL OUTPUT | | | | PROBABILITY OUTPUT | |
|------------------------------|--------------|----------------|------------|------------|----------------|-----------------|-----------------------|-------------|--------------------|--------------------|--------------|
| | | | | | | Observation | Adjusted Productivity | Residuals | Standard Residuals | Percentile | Productivity |
| Regression Statistics | | | | | | 1 | 40.398832 | 2.80116796 | 0.44784375 | 1.38888889 | 25 |
| Multiple R | 0.27848187 | | | | | 2 | 39.3119697 | 9.88803026 | 1.66799066 | 4.16666667 | 28 |
| R Square | 0.07756215 | | | | | 3 | 39.3119697 | -3.3119697 | -0.5702227 | 6.94444444 | 28 |
| Adjusted R Square | 0.05042134 | | | | | 4 | 40.398832 | 3.80116796 | 0.62001401 | 9.72222222 | 30 |
| Standard Error | 5.89299994 | | | | | 5 | 41.4856943 | 7.51430565 | 1.29373993 | 12.5 | 32 |
| Observations | 36 | | | | | 6 | 39.3119697 | -1.3119697 | -0.2258622 | 15.2777778 | 33 |
| ANOVA | | | | | | 7 | 39.8742572 | -7.6742572 | -1.3212768 | 18.0555556 | 34 |
| | df | SS | MS | F | Significance F | 8 | 36.0513828 | 8.94861718 | 1.54068572 | 20.8333333 | 35 |
| Regression | 1 | 99.2667573 | 99.2667573 | 2.85845238 | 0.10004405 | 9 | 40.398832 | 2.80116796 | 0.44784375 | 23.6111111 | 36 |
| Residual | 34 | 1180.73324 | 34.7274483 | | | 10 | 39.3119697 | 9.88803026 | 1.66799066 | 26.3888889 | 36 |
| Total | 35 | 1280 | | | | 11 | 40.0365446 | -4.0365446 | -0.6949729 | 29.1666667 | 36 |
| | | | | | | 12 | 38.5873949 | -2.5873949 | -0.4454724 | 31.9444444 | 36 |
| | | | | | | 13 | 40.398832 | 7.80116796 | 1.30889504 | 34.7222222 | 36 |
| | | | | | | 14 | 40.7611195 | -2.7611195 | -0.4753826 | 37.5 | 38 |
| | | | | | | 15 | 40.398832 | 1.80116796 | 0.2756735 | 40.2777778 | 38 |
| | | | | | | 16 | 39.8742572 | -1.6742572 | -0.2882573 | 43.0555556 | 38 |
| | | | | | | 17 | 38.2251074 | -5.2251074 | -0.8996061 | 45.8333333 | 38 |
| | | | | | | 18 | 38.2251074 | -10.225107 | -1.7604594 | 48.6111111 | 39 |
| | | | | | | 19 | 36.4136703 | 4.58632975 | 0.78962957 | 51.3888889 | 39 |
| | | | | | | 20 | 40.398832 | 3.80116796 | 0.62001401 | 54.1666667 | 39 |
| | | | | | | 21 | 40.398832 | -2.398832 | -0.4130075 | 56.9444444 | 41 |
| | | | | | | 22 | 37.1382451 | 1.86175488 | 0.32053881 | 59.7222222 | 41 |
| | | | | | | 23 | 36.7759577 | -0.7759577 | -0.1335968 | 62.5 | 41 |
| | | | | | | 24 | 40.398832 | 2.80116796 | 0.44784375 | 65.2777778 | 42 |
| | | | | | | 25 | 37.1382451 | 1.86175488 | 0.32053881 | 68.0555556 | 43 |
| | | | | | | 26 | 40.398832 | 0.80116796 | 0.10350324 | 70.8333333 | 43 |
| | | | | | | 27 | 38.2251074 | -10.225107 | -1.7604594 | 73.6111111 | 43 |
| | | | | | | 28 | 36.0513828 | -1.0513828 | -0.1810168 | 76.3888889 | 44 |
| | | | | | | 29 | 41.1234069 | -5.1234069 | -0.8820983 | 79.1666667 | 44 |
| | | | | | | 30 | 39.8742572 | -14.674257 | -2.5264706 | 81.9444444 | 44 |
| | | | | | | 31 | 40.398832 | 3.80116796 | 0.62001401 | 84.7222222 | 44 |
| | | | | | | 32 | 38.5873949 | 2.41260513 | 0.41537885 | 87.5 | 45 |
| | | | | | | 33 | 38.9496823 | 0.0503177 | 0.00866321 | 90.2777778 | 48 |
| | | | | | | 34 | 36.0513828 | 7.94861718 | 1.36851546 | 93.0555556 | 49 |
| | | | | | | 35 | 38.9496823 | -4.9496823 | -0.8521881 | 95.8333333 | 49 |
| | | | | | | 36 | 34.9645205 | -4.9645205 | -0.8547428 | 98.6111111 | 49 |
| | | | | | | | | | | | |
| | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% | Lower 95.0% | Upper 95.0% | | | |
| Intercept | 33.8776582 | 3.1849457 | 10.6368087 | 2.345E-12 | 27.4050698 | 40.3502466 | 27.4050698 | 40.3502466 | | | |
| TechUnc | 0.36228744 | 0.21428304 | 1.69069583 | 0.10004405 | -0.0731881 | 0.79776296 | -0.0731881 | 0.79776296 | | | |

This table includes dependent variable as productivity and independent variable as technostress creator (techno uncertainty). The regression outcome in table 6 H6 gives a statistical overview of how Techno Uncertainty may influence Productivity. The coefficient for techno uncertainty (Tech Unc) is 0.3623. This positive relationship implies that when techno uncertainty increases, productivity may increase marginally. Specifically, for every one-unit increase in techno uncertainty, productivity is expected to increase by nearly 0.362 units assuming other factors remain constant. The p-value for this coefficient is 0.1000, which is more than the standard significance level of 0.05. This high p-value suggests that the link between techno uncertainty and productivity is not statistically significant. therefore, cannot confidently conclude that techno uncertainty has a meaningful impact on productivity based on this sample. The R Square score is 0.0776 which indicates how much of the variance in productivity may be explained by techno uncertainty. In this case, techno uncertainty represents 7.76% of the variance, which is slight.

In conclusion, while there is some evidence that Techno Uncertainty may have a positive relationship with Productivity (based on the observed positive coefficient), the evidence is limited and statistically insignificant. This data does not support the hypothesis, which expected a negative connection, suggesting that higher techno uncertainty would decrease productivity. hence, we cannot confidently support the hypothesis based on this regression outcome.

DISCUSSION

This study provides valuable insights into the dual role of technostress creators and inhibitors in shaping employees' experiences with AI, particularly concerning AI anxiety and productivity. This study builds on Ragu-Nathan et al.'s (2008) and Tarafdar et al.'s (2007) technostress model to address the problems of AI in the workplace. The findings support Hypothesis 1, which states that creators of technostress, especially techno-overload and techno-complexity, strongly contribute to AI anxiety. Both techno-overload (coefficient of 0.1819, $p < 0.05$) and techno-complexity (coefficient of 0.3216, $p < 0.001$) have statistically significant positive relationships with AI anxiety. This indicates that increased exposure to these techno stressors amplifies strain (AI anxiety) levels among employees.

Contrary to initial hypotheses, Hypothesis 2 (H2) showed unexpected results, where self-efficacy and technical support considered a technostress inhibitor demonstrated a positive

association with AI anxiety (coefficient of 0.5962, $p < 0.05$). As employees gain confidence in their technical talents, they become more aware of AI tools obstacles, which could only increase their anxiety rather than reducing it. certainly the previous hypothesis, it demonstrates the complexity of AI anxiety in modern workplace and argues that a more advanced approach to technostress inhibitors may be necessary.

Furthermore, the findings partially support Hypothesis 3 (H3), which indicates that AI anxiety negatively impacts productivity. Although a negative relation was found (coefficient = -0.4145), it fell just short of the standard statistical significance ($p = 0.06$). therefore, higher levels of AI anxiety may hamper productivity, although other variables may also impact productivity outcomes. Similarly, Hypothesis 4 (H4) which determined the positive function of technical support on productivity, showed a marginal effect ($p = 0.075$) This suggests that while technical support is important, its impact on productivity may be less obvious without additional support mechanisms.

Hypothesis 5 (H5), which predicted that technostress creators would directly reduce productivity. The regression study found a significant negative relationship between techno-complexity and productivity (coefficient of -0.2987, $p < 0.05$), indicating that increasing complexity and demands associated with AI tools might reduce employee productivity.

Tarafdar et al. (2007) found that complicated AI can lead to lower work performance due to increased strain. This finding highlights the need of managing technostress creators in order to achieve optimal productivity in AI-enabled workplace.

Based on your findings for Hypothesis 6 (H6), techno-uncertainty did not have a positive impact on productivity. This finding contradicts the Challenge-Hindrane Stressor Framework, which states that some controllable stressors, such as moderate techno uncertainty, could encourage productivity (LePine, Podsakoff, & LePine, 2005). In this study, however, techno-uncertainty related to AI seemed to act more challenging. Therefore, This conclusion is consistent with research by Turel and Gaudio (2018), who discovered that high levels of uncertainty in technology i.e. Artificial Intelligence at workplace are more likely to cause technostress than to develop adoptability. Similarly, Ismail et al. (2023) found that when employees face unpredictable tasks without adequate support, it often leads to reduce productive.

LIMITATION TO STUDY

The study provides a comprehensive review of AI-related technostress, certain limitations should be recognised. Using self-reported survey data by employees introduces the potential for response biases, recollection bias, which can impact accuracy (Podsakoff et al., 2003). A longitudinal approach might give more detailed insights into how technostress dynamics change as people get more experience with AI. Lastly, the study's findings are based on a sample from people using AI tools at AI-intensive work environments which potentially limiting or restricting its applicability to industries with less AI tools exposure.

CONCLUSION

In conclusion, this study illustrates the intricate relationship between technostress creators and inhibitors, AI anxiety, and workplace productivity. By studying these concepts through a modern perspective of using Artificial Intelligence tools at the work contributes to both theoretical and practical understandings of technostress in AI-intensive workplace.

The findings suggest that techno stressors such as techno-overload and techno-complexity enhance AI anxiety, potentially reducing productivity. Unexpectedly, self-efficacy a normally favourable factor was shown to reduce strain(AI anxiety), suggesting that employees' increased understanding of AI's awareness also contribute increase in strain rather than reducing stress. From an operational perspective, these findings provide useful data for organisations implementing and also using AI tools at workplace. Here, the technical support and self-efficacy are important techno inhibitors , that organisations may need to customise to increase productivity and address AI anxiety.

For example, providing personalised training sessions that address usage of new AI tools based on the work requirements. therefore, organization can include Buddy training to pair up new employees with experienced colleagues to help each other learn new AI tools from each other. More like, sharing of skills and knowledge. To further strengthen these recommendations organisations should benefit from frequent reviews of employee experiences on new AI tools and receive feedback and work according to improve on using AI tools without getting triggered by the technostress creators.

Future research might build on these findings by investigating additional technostress inhibitors and evaluating the success of preventive measures in lowering AI anxiety.

Overall, promoting a balanced approach of technostress creators and inhibitors, which prioritises productivity can assist organisations in navigating the complexity of AI-enhanced work environments.

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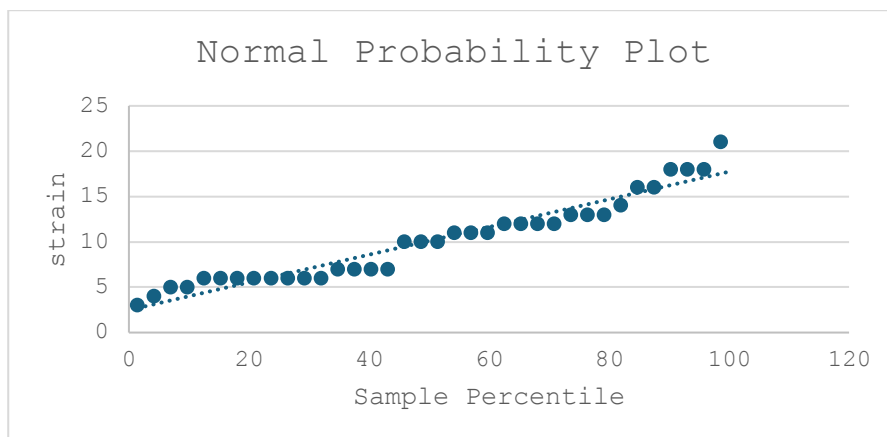
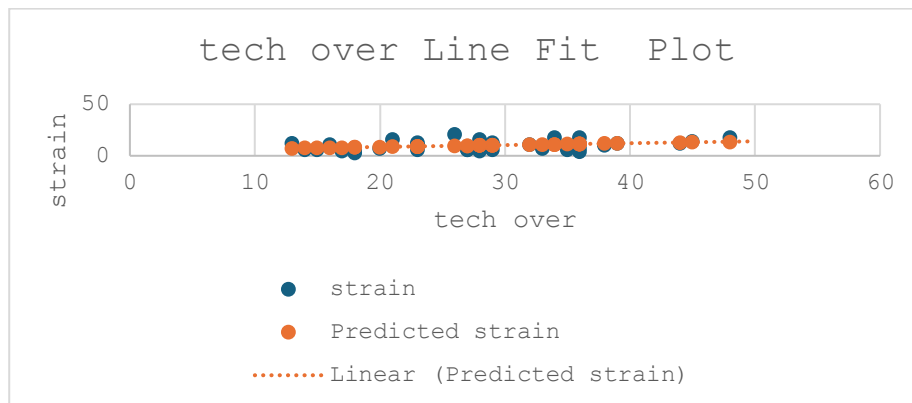
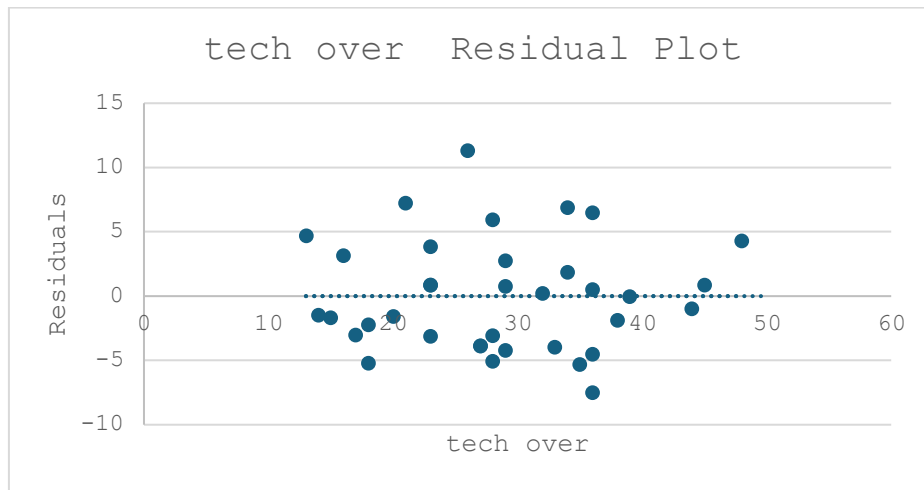
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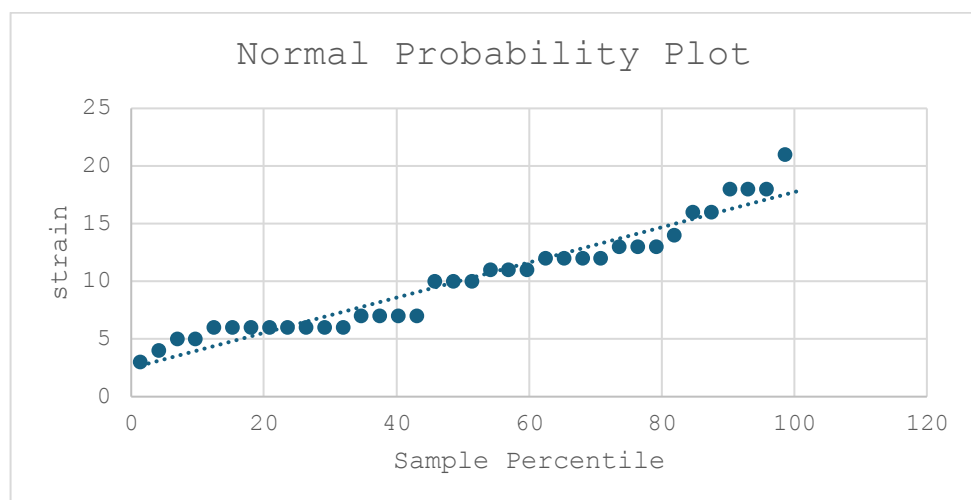
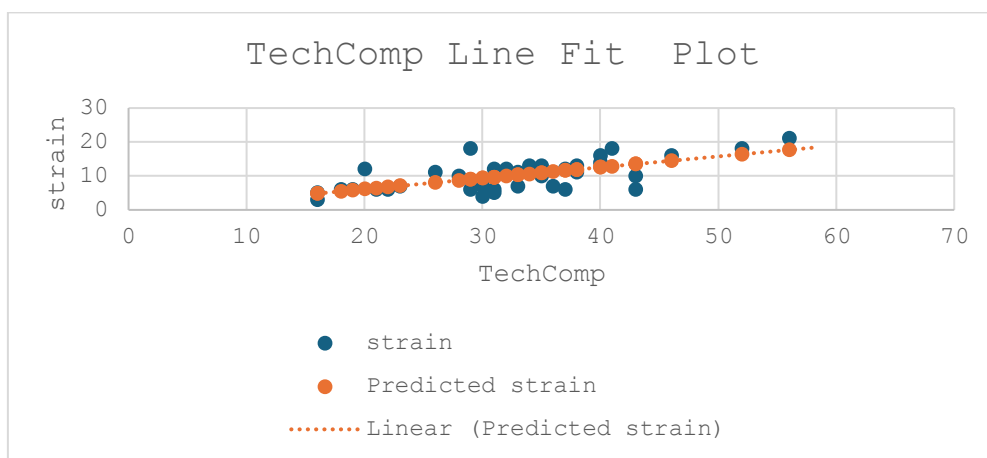
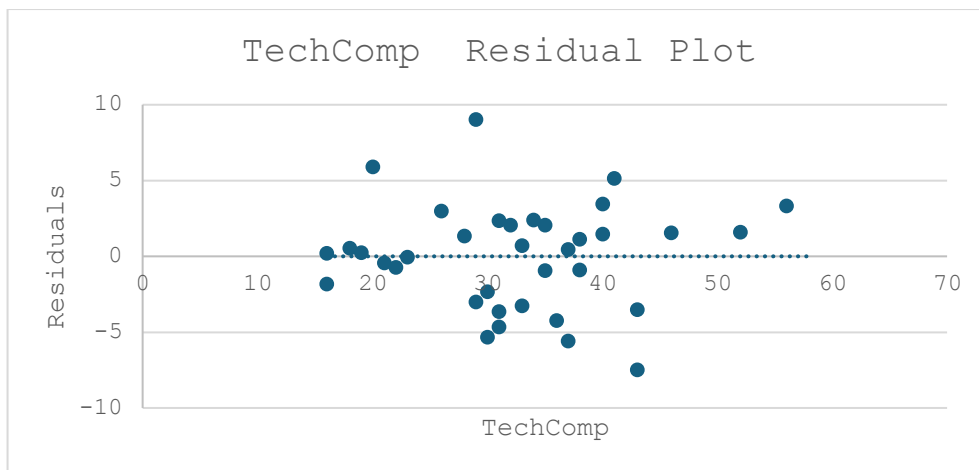
ANNEXURE-I

(It includes the Hypotheses Graphs from H1-H6)

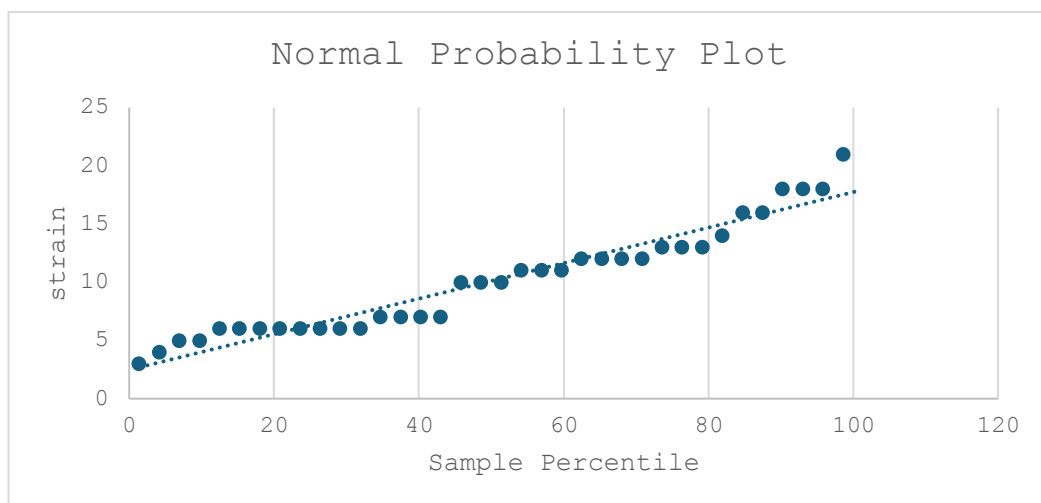
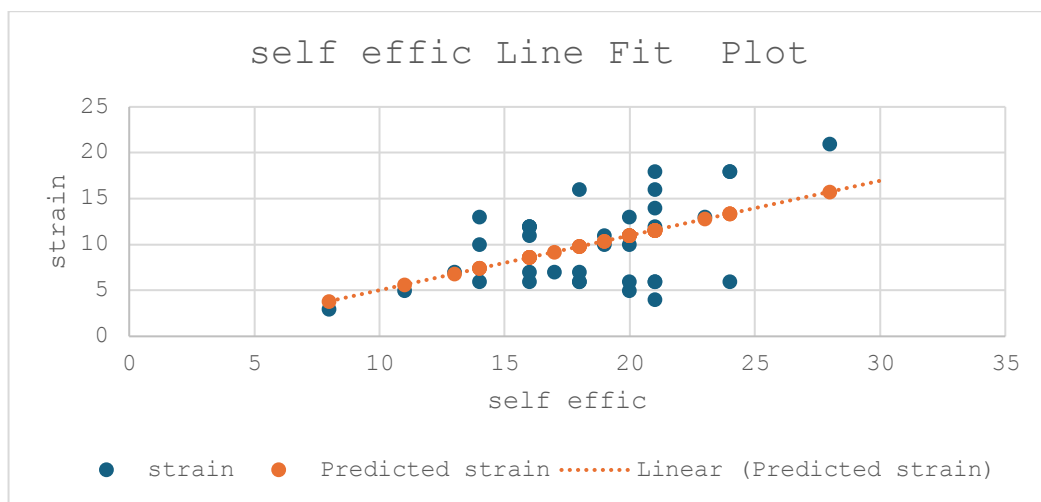
Hypothesis H1.1 Graph



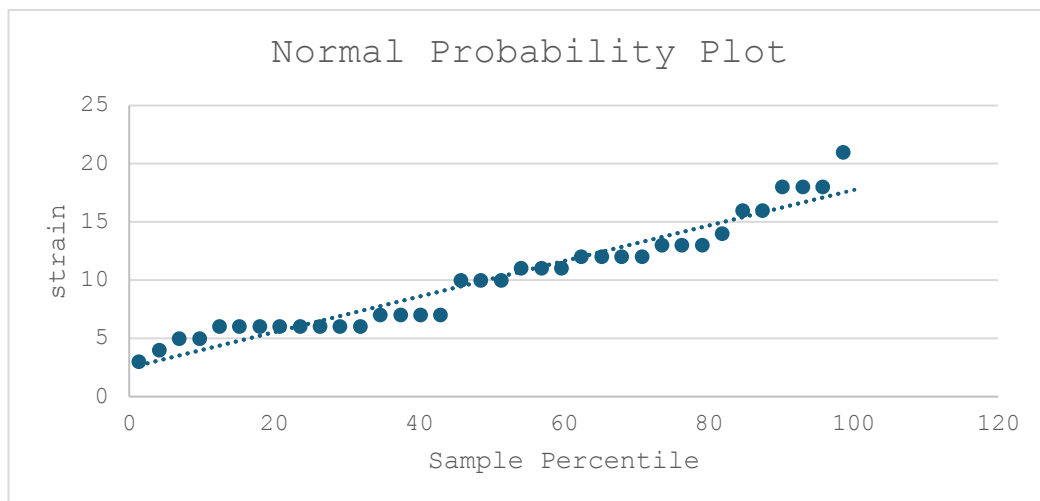
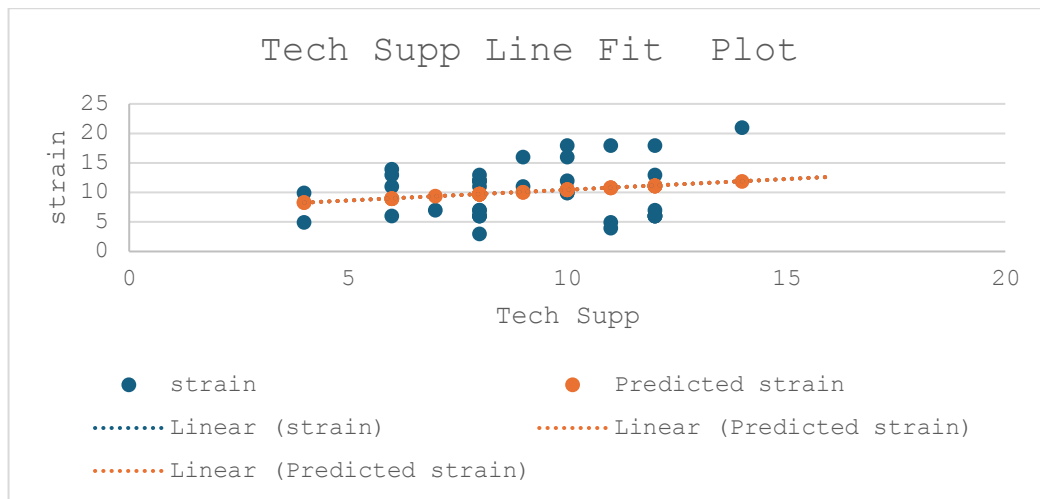
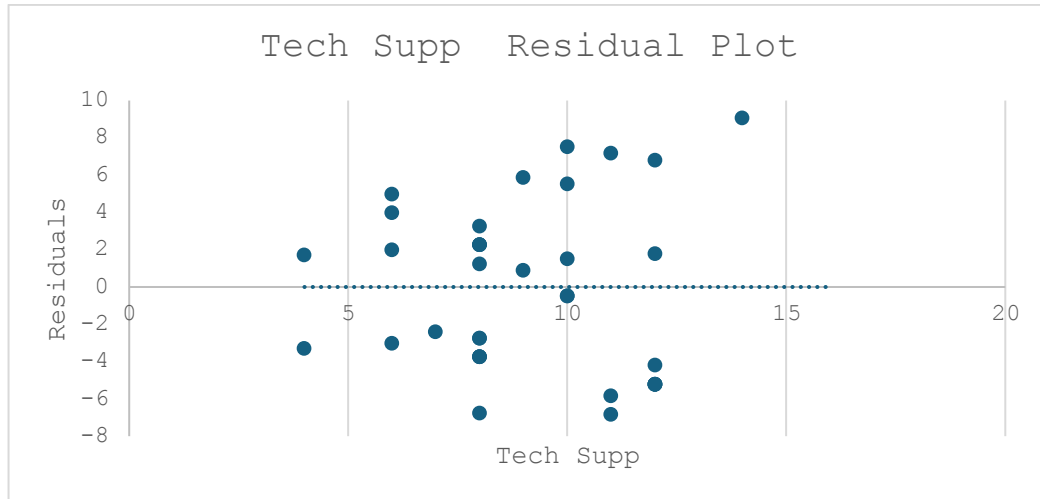
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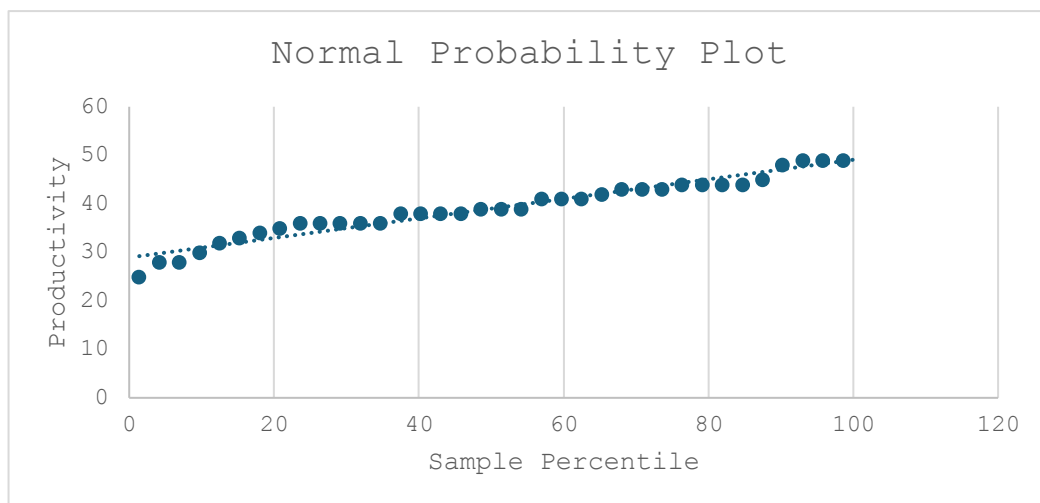
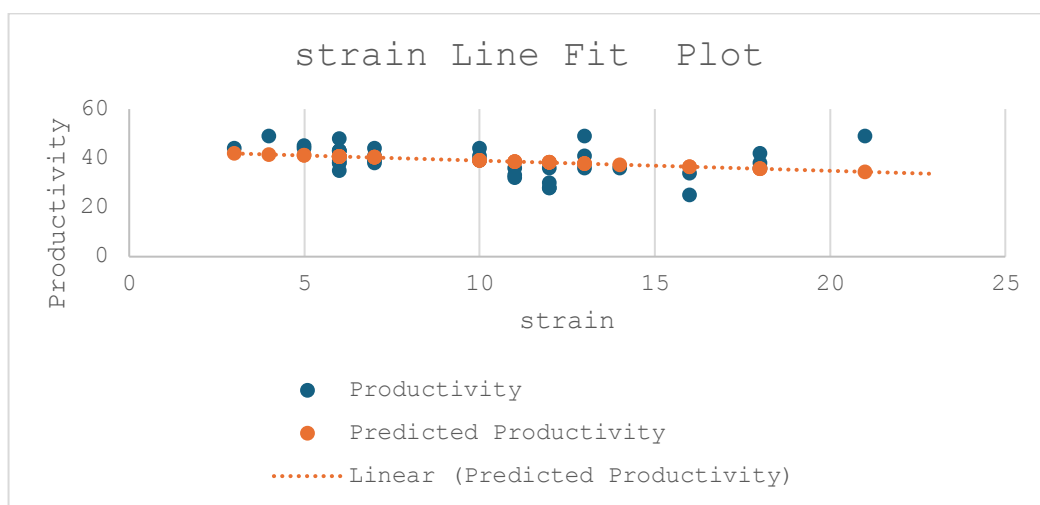
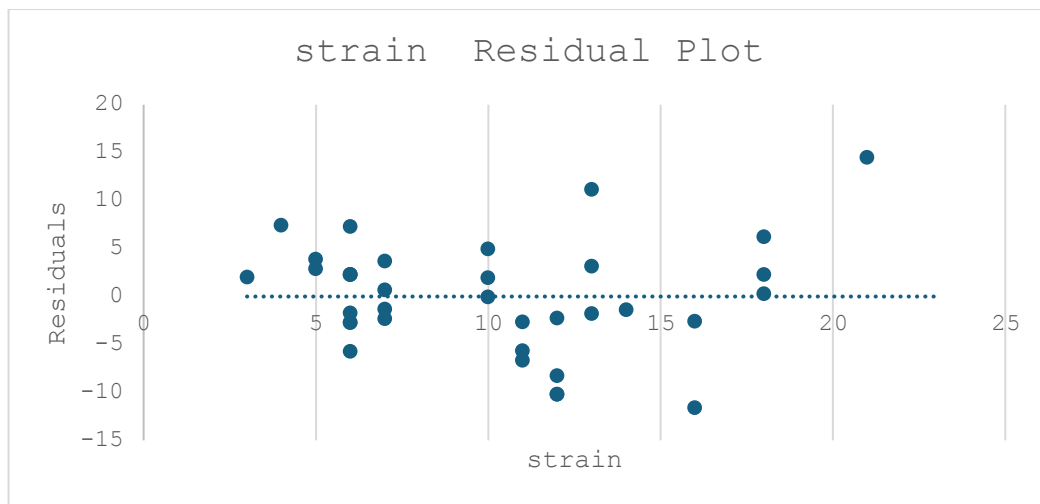
Hypothesis H2.1 Graph



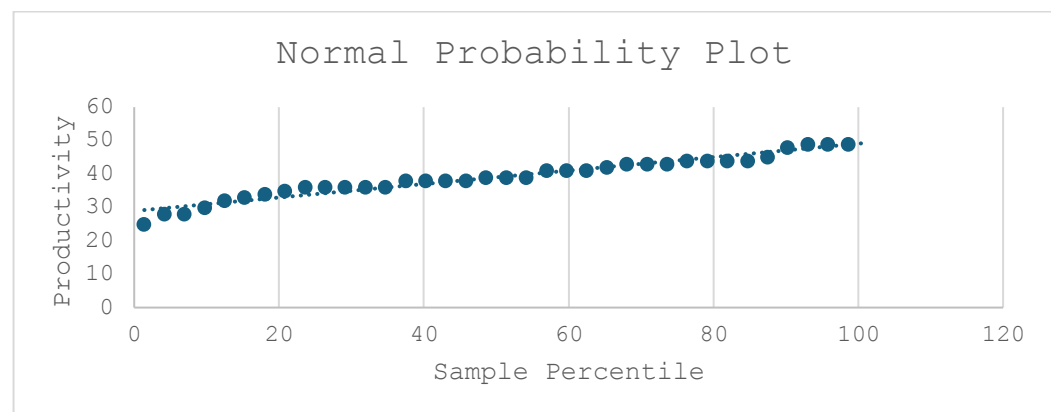
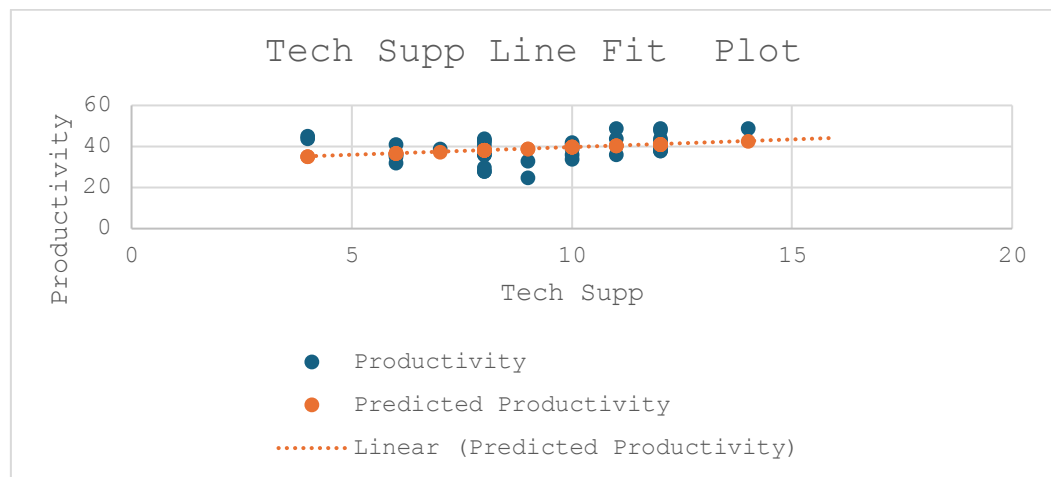
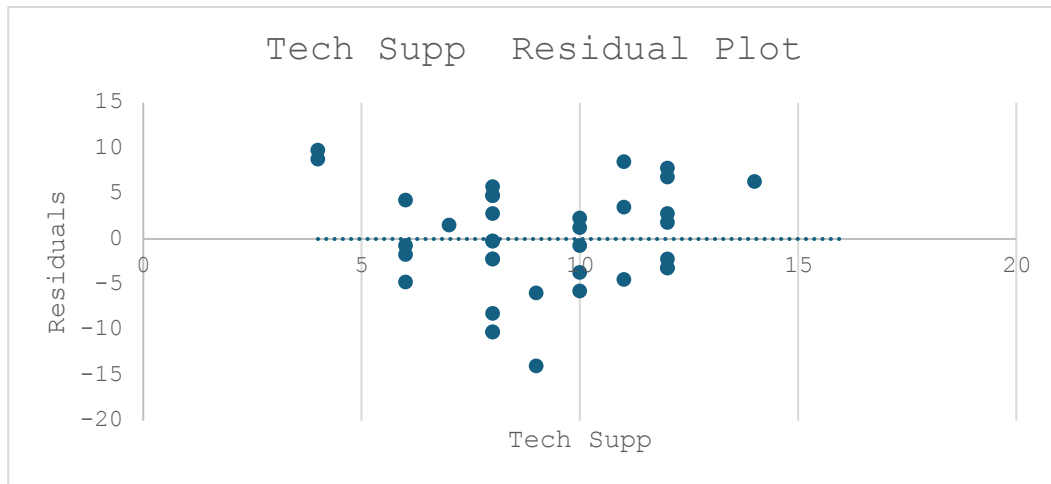
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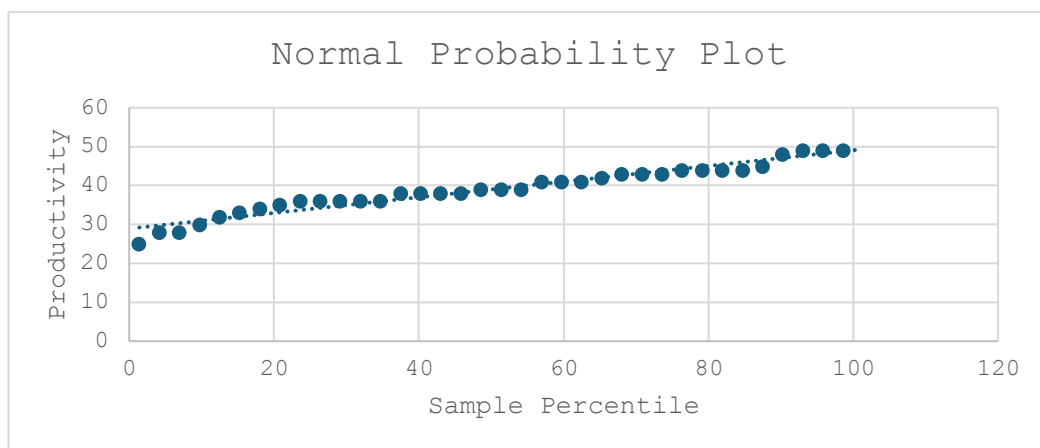
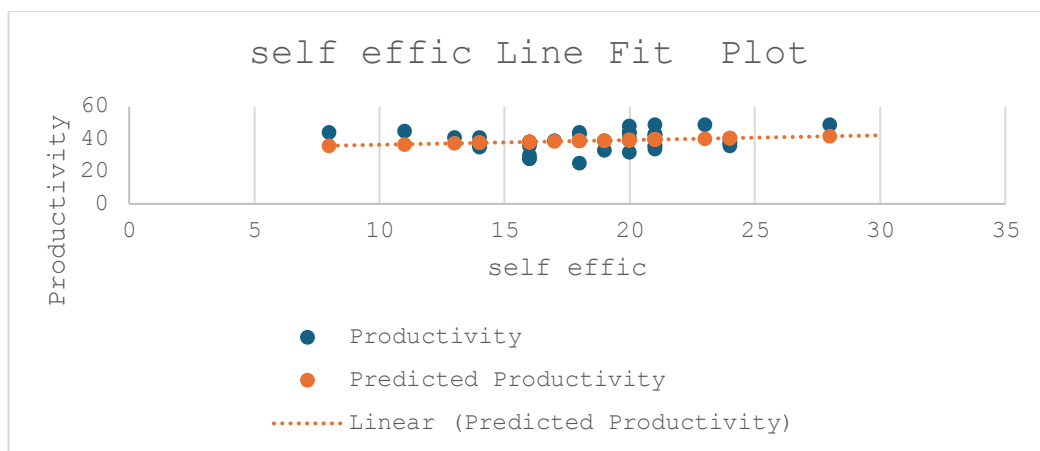
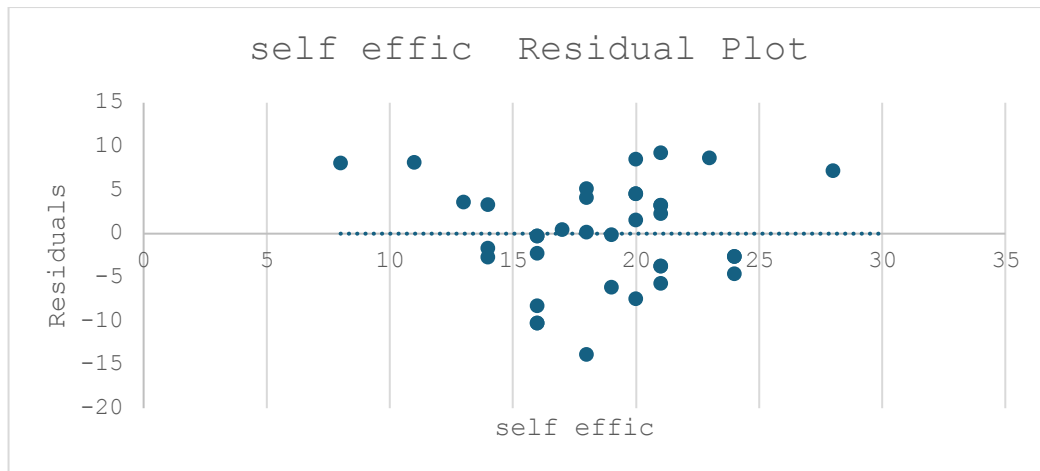
Hypothesis H3. Graph



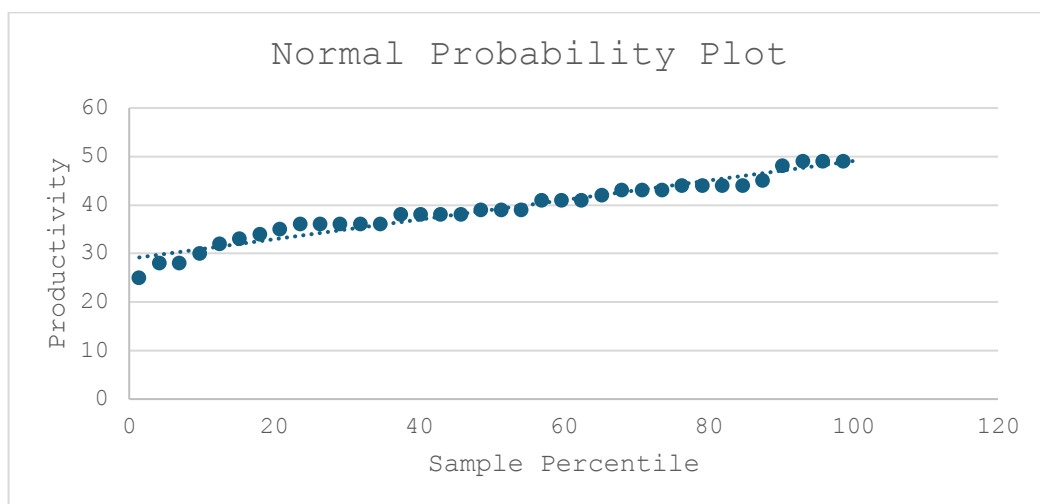
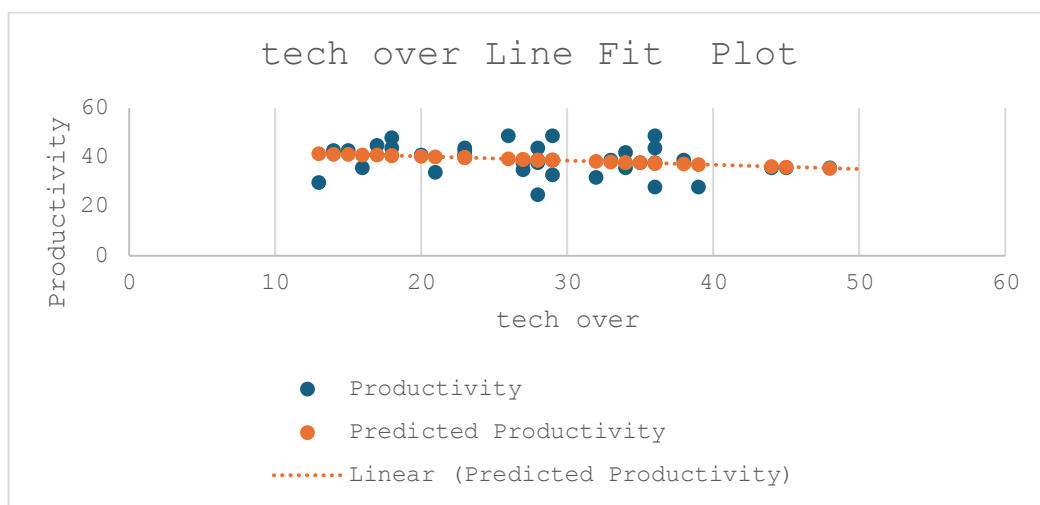
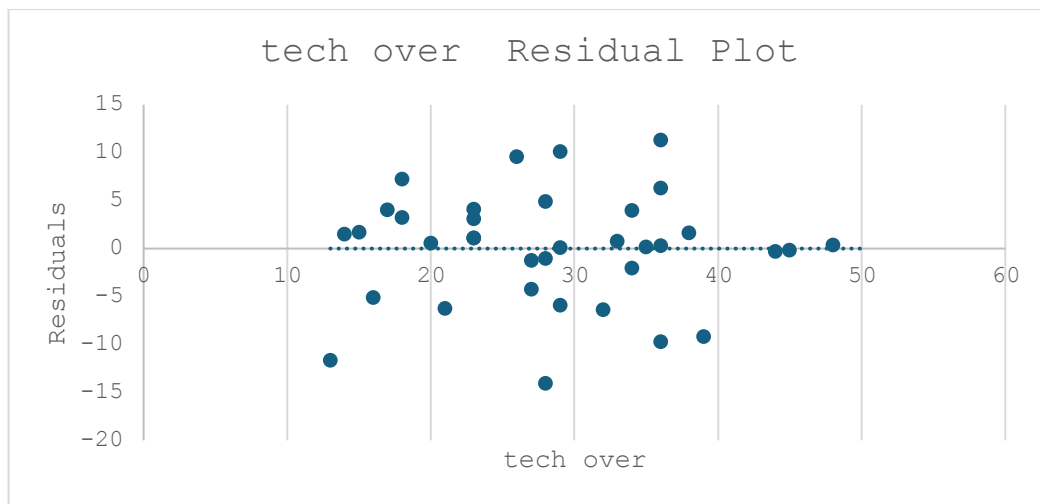
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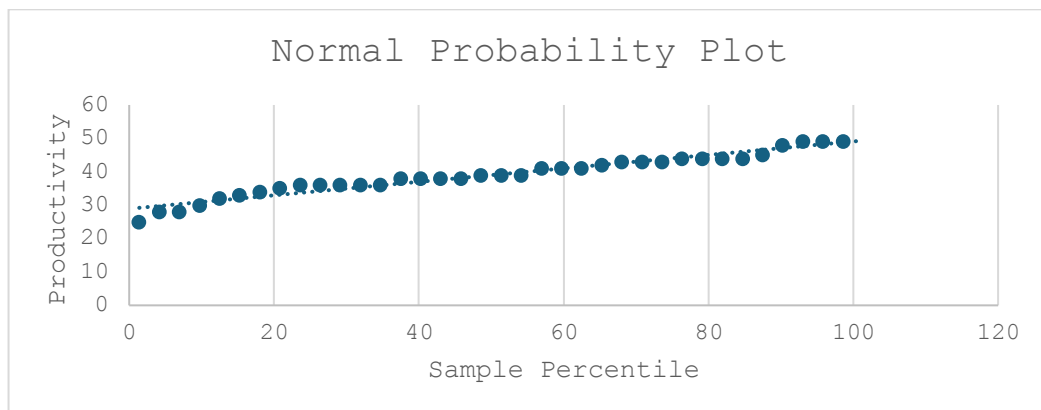
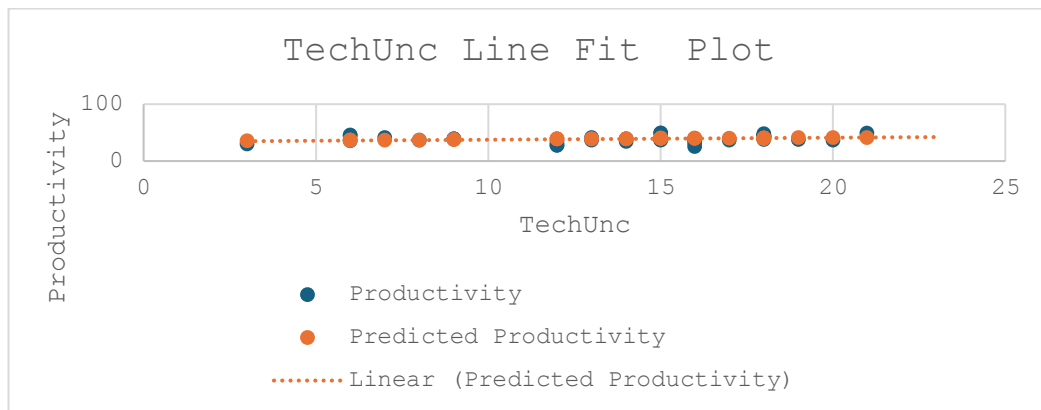
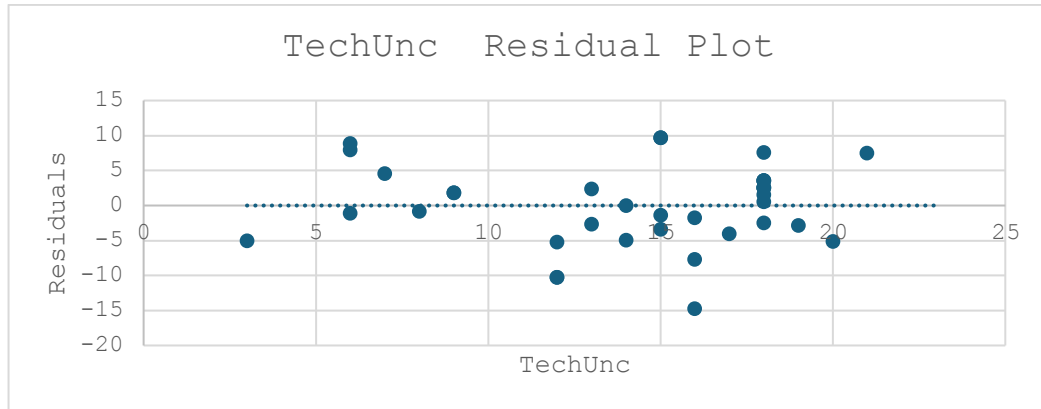
Hypothesis H4.2. Graph



Hypothesis H5. Graph



Hypothesis H6. Graph



Te Komiti Matatika Rangahau | Human Research Ethics Committee
Te Tononga Rangahau Hōu | Application for a new research project



| | | |
|----------------------------------|------------------|------------------------|
| ***For Office Use Only*** | | HREC Reference: |
| Date Received: | | Reviewers: |
| Date Approved: | Approved: | (HREC Chair) |

This document is to be completed by any UC Staff member or UC Student seeking Human Research Ethics Committee (HREC) approval to conduct research involving human participants. Please complete this application after reading the *Human Ethics Policy* available at <https://www.canterbury.ac.nz/study/support-info/study-topics/human-ethics>

Student applications must be reviewed and signed off by the student's supervisor.

Please remember that your audience for this application form will include community members and scholars from outside your discipline. All documentation must therefore be written in everyday language.

1. He Whakamahuki | General Information -

1.1. Project Title: Exploring the Dual Role of Technostress Creators and Inhibitors: Implications of AI Anxiety, Job Satisfaction and Technology Use

1.2. Primary Applicant Details *(staff member or student, adjunct, etc.).*

Name: Sreeta Majumder, Qing Zhao

University School/Department: Business information system taught master programme

Email address: sma537@uclive.ac.nz, qzh87@uclive.ac.nz

Student ID number (if applicable): 27592827

1.3. Additional research team members, or Supervisors (for student projects)

University School/ Department: Accounting&information systems

Name: Annette Mills Email address: Annette.mills@canterbury.ac.nz

University School/ Department: UC business school

Name: Click or tap here to enter text. Email address: Click or tap here to enter text.

University School/ Department: Click or tap here to enter text.

Name: Click or tap here to enter text. Email address: Click or tap here to enter text.

1.4. Does this research involve a clinical trial?



No.



Yes. Please contact the University's Financial Controller and inform them about the study for insurance purposes <https://www.canterbury.ac.nz/about-uc/our-structure/service-departments/financial-services>

1.5. Is this application for a project that has already received research ethics approval from an external ethics committee (e.g., Health and Disability Ethics Committee or another university's ethics committee) or organisation? PLEASE NOTE: HRC-funded applications require HDEC review.

- ☒ No. Please complete this application.
- ☐ Yes. Please provide details and forward copies of the approved application documentation and approval confirmation. Do not complete the rest of this application unless advised.

1.6. What is the academic purpose of the research project?

Please select one option.

- ☐ Staff research ☐ Doctoral research (e.g., PhD, EdD) ☐ Master's research
- ☐ Honours research ☒ Other (please specify e.g., final year project) MBIS673 Applied Research Project

2. Te Tirohanga Whānui | Project Aims and Overview -

2.1. Please provide a brief easy-to-read summary of the project (up to approx. 300 words e.g., background and purpose of the project).

This research project examines the effects of artificial intelligence (AI) use on employees in the workplace. More specifically, the project aims to explore the effects of AI use (such as anxiety, and stress) and its impact on job satisfaction. The outcome may provide insights that can help organisations build a healthy workplace by finding effective ways to manage technostress, improve employee well-being, boost long-term technology adoption and optimise organizational performance.

2.2. What are the research objectives (questions or hypotheses) of this project?

What impact does the use of artificial intelligence in the workplace have on employees (e.g. technology stressors), and what are the consequences?

2.3. Which research methodology/ies will be used to collect data?

Please select all that apply.

- ☒ Survey/ Questionnaire ☐ Interview ☐ Kaupapa Māori
- ☐ Experiment ☐ Observational ☐ Focus group
- ☐ Other (please specify) [Click or tap here to enter text.](#)

2.4. Does the research involve multiple phases (e.g., survey and focus groups, or multiple surveys, or a pilot study followed by a main study)?

- ☒ No.
- ☐ Yes. Please briefly describe each phase (i.e., description, purpose, research methods etc.) [Click or tap here to enter text.](#)

3. Ngā Tūraru me ngā Matatika | Risks and Ethical Issues

3.1. Please indicate each of the following criteria that apply to this research (either for the participant or the researcher)

YES NO

- ☐ ☒ Physical risks (e.g., Invasive physical procedures or potential for physical harm)

- ☐ ☒ Psychological risks (e.g., tasks that might cause emotional stress)
- ☐ ☒ Social risks (e.g., peer group involvement, participants are known to the researcher)
- ☐ ☒ Employment/professional/service user risks (e.g., if an employer can identify who did/did not participate in a study)
- ☐ ☒ Personal or sensitive issues (e.g., that people don't typically discuss with unfamiliar people)
- ☐ ☒ Cross-cultural issues (e.g., topics focussed on aspects of different cultures or countries)
- ☐ ☒ Moral or religious issues (e.g., participant demographics and/ or topics involved)
- ☐ ☒ Investigation of illegal behaviour(s)
- ☐ ☒ Invasion of privacy
- ☐ ☒ Collection or use of information that might be disadvantageous to participants
- ☐ ☒ Use of information already collected for which agreement of use/confidentiality was not agreed upon at the time data was collected
- ☐ ☒ Conflict of interest (e.g., the researcher is also the lecturer, teacher, treatment provider, colleague or employer of the research participants, or there is any other power relationship between the researcher and the research participants)
- ☐ ☒ Participants who are unable to give informed consent (e.g., children under 16 years)
- ☐ ☒ Audio or visual recording without participants' consent
- ☐ ☒ Withholding benefits from "control" groups
- ☐ ☒ Inducement over a nominal amount to recompense costs, e.g. a \$30 petrol voucher

If "YES" was selected for any of the above, please describe the potential risk in detail, and explain how this will be mitigated. Please also explain each risk and the steps taken to mitigate these in the Participant Information Sheet.

If "NO" was selected for all of the above, please provide an explanation below as to why the research is low-risk (i.e., no higher risk than a participant might expect to experience in everyday life).

Based on the guidelines outline by the Human Ethics Committee, this research is considered low risk, It doesn't involve deception, threat, invasion of privacy, mental, physical or cultural risk or stress, or gathering of illegal information or of personal information of a sensitive nature about or from individuals. The information gathered is limited to their responses provided in this research project.

4. Ngā Kaiwhakauru | Research Participants

4.1. Who are the participants and why have they been chosen?

Studies show that when new technologies are introduced in the workplace these can lead to technology stress and anxieties that impact employee's work, e.g. job satisfaction, work productivity etc. This study aims to uncover the effects of artificial intelligence (AI) use on employees in the workplace. The participants have been selected because they use/have used AI tools (e.g. GenAI) for their work.

4.2. What selection criteria and/ or exclusion criteria will be used (e.g., randomly, by age, gender, ethnic origin, other)?

A filter question will be used so that only persons over the age of 18 years and who use/have used AI tools in the work place will be invited to participate in the study.

4.3. How many participants will be recruited?

Minimum number: 35

Maximum number: 50

Note: Please include statistical justification if appropriate. If the study involves multiple groups/ phases, please state numbers for each group/ phase.

4.4. Will the research involve children or youth aged 17 or younger?

☒ No. (go to 4.5)

☐ Yes. Please provide details. [Click or tap here to enter text.](#)

4.4.1 Will researchers be interacting in-person with children or youth aged 17 or younger?

☒ No. (go to 4.5)

☐ Yes. Please confirm that each researcher working with children or youth has a current relevant professional registration (e.g., NZ Teaching Council) or a current children's worker safety check. [Click or tap here to enter text.](#)

4.5. Will the research involve adults with diminished capacity to provide informed consent (e.g., people with cognitive impairment)?

☒ No.

☐ Yes. Please provide details. [Click or tap here to enter text.](#)

4.6. Please describe how potential participants will be identified.

Survey questions will be on a poster on the UC campus and via LinkedIn/Facebook. A filter question will be used so that only persons over the age of 18 years and who use /have used AI tools in the workplace participate in the study

Note: The use of publicly available contact information is recommended. If privately held contact details (e.g., lists obtained from organisations) are to be used, participants must have consented to their contact details being used for this purpose. If a researcher was to receive private contact details of a third party, this could potentially breach the Privacy Act. Usually, if a snowball recruitment method is to be used, participants and/or others should be given an information sheet or advertisement that they can give to others, in the hope that those third parties will then contact the researcher. Further guidance on privacy can be found in the policies of the University <https://www.canterbury.ac.nz/about-uc/corporate-information/policies>, and on the website of the Privacy Commissioner <https://www.privacy.org.nz/>

4.7. Please describe how potential participants will be recruited – i.e., by whom, when, and how will information be given to potential participants?

This study will invite participants via advertisement through Facebook, LinkedIn and poster advertising on the UC campus.

Note: Please detail the specific processes used to provide project information and to obtain consent. It is important that these processes allow the participant the opportunity to say no or withdraw without stress, embarrassment or difficulty.

Note: It is generally expected that participants will receive project information, which they must be able to retain, before being asked to provide consent. Participants should be provided with sufficient time and space (free from any form of pressure) to decide whether or not they will participate. For example, provision of information to participants several days before any interview or focus group is recommended.

4.8. Will the recruitment process involve the use of emails, advertisements, phone calls or other forms of contact with potential participants?

☐ No.

☒ Yes. Please include copies of emails, advertisements and/ or oral scripts with the application (including e-advertising, e.g., Facebook) and discuss any permissions that you have or might need to seek (e.g., from organisers of social media/blog/comments pages). See Poster Appendix III

4.9. Will each participant receive written project information?

☒ Yes. Please attach a copy of each version of the Information Sheet as an appendix.
Information sheet attached Appendix II

☐ No. Please provide supporting rationale. [Click or tap here to enter text.](#)

Note: It is expected that all participants receive written project information (exceptions could be participants who have difficulty reading or where there are cultural reasons). Separate Information Sheets should be provided for different participant groups, e.g., child and parent versions, teachers, organisation managers. See here for examples: <https://www.canterbury.ac.nz/study/study-support-info/study-topics/human-ethics>

4.10. Please describe the procedures to be followed if more people express interest in participating than can be accommodated, or the planned recruitment is not successful in recruiting the target number of participants.

If the target falls below the number expected, the advertising will be extended (e.g. via FaceBook and LinkedIn networks).

4.11. How much time will participation involve for an individual participant?

The survey form will take 10 minutes.

Note: For research with multiple phases, please provide an anticipated time for each phase and an overall total time. If the project involves long interviews or observations, please consider offering breaks.

4.12. What are the anticipated benefits to participants?

There are no direct benefits expected from completing this interview, the use and importance of AI in organisations is increasing. The findings may provide insights to help organisations build a healthy workplace and long-term technology adoption on employees when introducing new tools (like AI) into the workplace.

4.13. Will some form of inducement be used to support recruitment (e.g., vouchers, koha, food, contribution to course assessment, reimbursement of a direct cost)?

☒ No.

☐ Yes. Please provide specific details on the type and amount of inducements, and the source of funding for the inducements. [Click or tap here to enter text.](#)

Note: inducements should acknowledge participants' contribution to the research or provide reimbursement of direct costs incurred (e.g., travel). Refer to information about vouchers and incentives on HREC webpages for a more detailed explanation.

4.14. Will information about participants be obtained from any source other than the participant?

- ☒ No. Go to section 5.
- ☐ Yes. Please provide specific details about the source, procedures and why this information is needed. [Click or tap here to enter text.](#)

Note: For example, medical, educational, personnel or other confidential records. Please ensure the information sheet is very clear about any data gathered in this way and explain how you intend to gain permission to use the data.

5. Te Whakaae a ngā Kaiwhakauru | Consent by participants

5.1. Is each participant capable of providing informed consent to participate?

- ☒ Yes.
- ☐ No. Please provide details. [Click or tap here to enter text.](#)

Note: Children and young adults under the age of 16 years (or 18 years if still at school) require parental/caregiver consent. Adults who have impairments that limit their capacity to represent themselves also need caregiver/ legal guardian/ advocate consent. Such participants should be provided with a suitable information sheet and provide written or oral 'assent' as appropriate.

5.2. How will consent be obtained from each participant?

- ☐ A signed consent form. Please attach a copy as an appendix. [Click or tap here to enter text.](#)
- ☒ Online survey/questionnaire consent statement.
- ☐ Other. Please provide details. [Click or tap here to enter text.](#)

Note: Where you do not intend to gain written consent, (i.e., where you will rely on oral consent etc.) please justify and explain how you will obtain consent (e.g., recording the oral consent is often appropriate).

*Note: Projects that **only** involve an anonymous questionnaire may not necessarily require a separate consent form, provided that the questionnaire includes relevant study information, your name and contact number.*

5.3. Will the research involve any of the following activities?

- ☐ Audio or video recording.
- ☐ Publication of identifying information (e.g., names, organisations etc).
- ☐ Retention of data for future use by other researchers.
- ☐ Future use of participants' contact information.
- ☐ Parental or caregiver consent for child participants/those unable to provide consent.
- ☒ None of the above.

If applicable, please ensure participants are clearly informed about these aspects of the research and provide specific consent for each one.

Note: Even when decisions are taken by another (e.g., caregiver), it is good practice to seek the assent (agreement of someone who is unable to give full informed consent) of the person on a regular basis and watch out for verbal or nonverbal signs of distress or disengagement.

For future use of contact information, please provide the rationale and confirm that specific consent for this will be sought in the Consent Form. [Click or tap here to enter text.](#)

6. Te Hanga Ngātahi me te iwi Māori | Engagement and Co-design with Māori

This information informs the committee about aspects of the research that may have implications for Māori and the need for Māori engagement and co-design considerations.

Will the research involve -

YES NO

- | | | |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Intentional recruitment of Māori participants? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Recording of ethnicity for reporting of Māori participants' data? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Implications for iwi Māori stemming from the design, implementation or outcomes? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Significant Māori content, use of culturally sensitive material or knowledge? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Access to Māori sites, or sampling of flora/fauna? |

Note: If the answer is 'YES' to any of the criteria above, please contact a Kaiārahi Māori/Māori research advisor. Kaiārahi will be able to help assess whether to seek further co-design and engagement, and whether to contact the Ngāi Tahu Consultation and Engagement Group (NTCEG). If a Māori steering group/senior Māori advisor is working with you on the project, please check with them on the need for contact with NTCEG.

Please provide evidence that engagement has occurred OR, if it is underway, provide a copy of the outcome once it is available.

[Click or tap here to enter text.](#)

7. Ētahi atu Hunga | Other Organisations, Community groups or Interested Parties

7.1. Will the research require permission from, or consultation with, another organisation (e.g., school, government agency, business, community group etc.) to recruit participants or access information?

- ☒ No.
- ☐ Yes. Please provide details. [Click or tap here to enter text.](#)

Note: For example, Parents, guardians, school principals, teachers, boards, responsible authorities including employers, etc. If the response is yes, please explain how this approval has been or will be obtained (and attach copies of relevant correspondence).

Note: Consultation with a community is recommended when the research involves participants from an identifiable group (e.g., geographically-bounded, like-minded individuals, specific hobbyists, specific professional group). A useful, though not exhaustive test of whether a community should be consulted, is whether that community has a leadership group that can be contacted. Once support or approval is obtained please forward this to HREC. The HREC understands that in many cases, consultation is informal, and does not produce official approval documents. In such cases, simply note with whom consultation has taken place, why it is those particular communities/individuals, and provide contact information.

7.2. Is the research funded by, or carried out on behalf of, another organisation?

Note: as above, HRC-funded research requires review by the Health and Disability Ethics Committees, and cannot be reviewed by the UC HREC.

- ☒ No.
- ☐ Yes. Please provide details. [Click or tap here to enter text.](#)

7.3. Is an Intellectual Property (IP) or Data Sharing agreement with an external organisation in place for this research?

- ☒ No.
☐ Yes. Please attach a copy of any such agreements. [Click or tap here to enter text.](#)

7.4. Is it possible that an organisation (e.g., school, business, employer) will be named or be able to be identified in any publication or presentation resulting from the research?

- ☒ No.
☐ Yes. Please explain if you intend to seek organisational approval for this, or why you have decided not to seek this approval. [Click or tap here to enter text.](#)

7.5. Is there any conflict of interest (potential, perceived, or actual) for the researcher(s) and/or organisation(s) involved?

- ☒ No.
☐ Yes. Please describe and note how this is to be managed. [Click or tap here to enter text.](#)

The UC Conflict of Interest Policy can be found here: <https://www.canterbury.ac.nz/about-uc/corporate-information/policies/conflict-of-interest-policy>

8. Ētahi atu Hunga | Location of Research

8.1. Where will the research take place?

The survey will be administered online via UC Qualtrics. Participants will be able to access and do the survey in their own space.

Note: Locations should provide sufficient privacy and comfort for participants. It is generally recommended that interviews are NOT conducted in private homes. The HREC appreciates that in some cases there may be good academic reasons for conducting research in private homes. If you believe this applies to your project, please provide concise justification of why research in private homes is necessary for your project, and detail how you anticipate and will seek to mitigate potential risks to both participants and researchers when undertaking research in private homes (e.g., by attaching a researcher safety or fieldwork plan).

Note: in the case of research involving children, young adults and participants who need particular care, an adult other than the researcher is required to be present.

8.2. Will any participants be located outside Aotearoa New Zealand?

- ☐ No.
☒ Yes. Please provide details. Recruitment via FaceBook and LinkedIn may include participants located outside New Zealand

8.3. Will the researcher(s) be based outside Aotearoa New Zealand?

- ☒ No.
☐ Yes. Please provide details. [Click or tap here to enter text.](#)

Note: Te Kura Tāura | UC Graduate School must be informed of any student overseas travel for research purposes.

8.4. Will any research documents require translation into another language?

☒ No.

☐ Yes. Please provide details (i.e., which documents, what languages, who will provide the translation). Copies of translated material should be provided with the application. [Click or tap here to enter text.](#)

9. Ngā Tirohanga me ngā Rārangi Uiui | Surveys or Questionnaires

9.1. Will a survey or questionnaire be used to collect data?

☐ No. Go to section 10.

☒ Yes. Please provide a copy of the survey or questionnaire as an appendix. See Survey Questions Appendix I

9.2. How will the survey or questionnaire be distributed and responses collected?

☒ Online via Qualtrics.

☐ Other. Please describe procedures. [Click or tap here to enter text.](#)

Note: The University has a Qualtrics licence in place for all staff and students. All online surveys of UC staff or students must use Qualtrics. If the research involves an online survey platform other than Qualtrics please provide the rationale <https://www.canterbury.ac.nz/about/ako/evaluation-and-student-insights/qualtrics-survey-support/>

9.3. Will the survey or questionnaire responses be anonymous, confidential, or neither?

☒ Anonymous (i.e., no personal or identifying information is captured that can be linked with participant responses)

Note: Qualtrics provides a facility that supports separate capture of participant contact details for the return of study findings and/ or an incentive prize draw to ensure participant anonymity. See <https://www.canterbury.ac.nz/about-uc/what-we-do/teaching/evaluation-and-student-insights/qualtrics-survey-support> for support.

☐ Confidential (i.e., personal or identifying information is captured and will be stored securely, not disclosed, reported or published).

Note: Researchers must ensure that stored data is separated into identifying data (e.g., consent forms, coding forms), and disguised (e.g., coded data, identities obscured in transcripts). This can be done by assigning participants a code on the consent form, and using that code on any data, or transcripts, etc.

☐ Neither anonymous nor confidential. Please provide rationale [Click or tap here to enter text.](#)

9.4. If the research involves an online survey/questionnaire presented to UC students please confirm that the UC Student Evaluation and Insights team has been consulted and provided approval. See <https://www.canterbury.ac.nz/about-uc/what-we-do/teaching/evaluation-and-student-insights/surveying-uc-students--procedures--policies--and-survey-calendar>

☒ Not applicable.

☐ Student Evaluation and Insights team has been consulted and provided approval (please attach approval as an appendix).

10. Ngā Uiuinga | Interviews

10.1. Will interviews be used to collect data?

- ☒ No. Go to section 11.
- ☐ Yes. Please describe the interview procedures (e.g., welcome/introduction/refreshments) and provide a list of the planned questions (for structured/semi-structured interviews) or discussion topics (for unstructured interviews). Yet to be planned

10.2. Will interviews be recorded?

- ☒ No.
- ☐ Yes. Please indicate the type (i.e., audio, video) and purpose of the recording. Audio recording

Note: Recorded digital files should be uploaded to secure storage and deleted from portable recording devices as soon as practical. Participants must be fully informed about, and consent to, the use of recordings.

10.3. Will participants be offered a copy of the interview transcript to review/confirm?

- ☒ No.
- ☐ Yes. Please describe the process and timeline (e.g., when and how will participants be provided with the transcript? How long will they have to review and advise of any amendments, etc.?) [Click or tap here to enter text.](#)

10.4. Will a person outside the research team be used to transcribe interviews?

- ☒ No.
- ☐ Yes. Please attach a copy of the confidentiality agreement as an appendix.
[Click or tap here to enter text.](#)

11. Ngā Rōpū Arotahinga | Focus Groups, Hui, Wānanga, Talanoa

11.1. Will focus groups, Hui, Wānanga, or Talanoa be used to collect data?

- ☒ No. Go to section 12.
- ☐ Yes. Please describe the process (e.g., the number of people in each group, welcome/introduction, refreshments) and provide a list of the planned questions/discussion topics.

Please include a copy of the confidentiality statements that all participants will sign OR explain how the confidentiality of participants will be protected. [Click or tap here to enter text.](#)

11.2. Will the focus group, Hui, Wānanga or Talanoa be recorded?

- ☒ No.
- ☐ Yes. Please indicate the type of recording to be used.

☐ Audio ☐ Video ☐ Field notes ☐ Photos

Note: Recorded digital files should be uploaded to secure storage and deleted from portable recording devices as soon as practical. Participants must be fully informed about, and consent to, the use of recordings.

11.3. Will a person outside of the research team be used to transcribe these discussions?

- ☒ No.
- ☐ Yes. Please attach a copy of the confidentiality agreement as an appendix.
[Click or tap here to enter text.](#)

11.4. Will participants be asked to review a transcript of the discussion?

- ☒ No.
- ☐ Yes. Please describe the process and timeline (e.g., when and how will participants be provided with the transcript, how long will they have to review and advise of any amendments etc.). Please also describe how confidentiality/privacy issues will be addressed. [Click or tap here to enter text.](#)

Note: Please note that issues of privacy and confidentiality arise when participants receive a transcript that includes statements or information attributable to other individuals in the group. Ensuring participants are fully informed about this at the point of providing consent is important.

12. Ngā Whakamātau, ngā Whakatātare | Experimental* or observational studies

**Experimental studies include intervention research involving measurement of any individual or group changes in response to teaching or learning activities.*

12.1. Will the research involve an experiment, or observation of participants?

- ☒ No. Go to section 13.
- ☐ Yes. Please briefly describe the experiment or observations. [Click or tap here to enter text.](#)

12.2. Will the experiment or observations involve audio, video or photographs of participants?

- ☒ No. Go to Section 13.
- ☐ Yes. Please indicate:

- ☐ Audio
- ☐ Video
- ☐ Photographs.

Please specify below how you will avoid capturing those who are not participants in your research. [Click or tap here to enter text.](#)

Note: Recorded digital files should be uploaded to secure storage and deleted from portable recording devices as soon as practical. Participants must be fully informed about, and consent to, the use of recordings.

13. Te Nukarau | Deception

13.1. Will the research involve any deception (e.g., some study objectives are withheld from participants until after they have completed tasks)?

- ☒ No. Go to section 14.
- ☐ Yes. Please describe the deception, the rationale for the deception, and the debriefing process.
[Click or tap here to enter text.](#)
- ☐ A copy of the debriefing sheet is attached (this should typically include reasons for the deception, further relevant study details and information advising participants that they can withdraw from the study once they are made aware of the deception). [Click or tap here to enter text.](#)

14. Ngā Raraunga: te kōhi, te pātengi, te whakamahi | Data collection, storage and use

14.1. Does the research involve the collection and storage of electronic data?

☐ No.

☒ Yes. Please describe the secure storage procedures. Data will be stored on a password protected device and on UC OneDrive

Note: Secure storage of data should, when possible, utilise UC computer servers, password-protected devices, and individually password-protected files for data containing identifiable and/or sensitive data. The HREC acknowledge that data is often stored on staff/student portable or home-based computers and external hard drives. These files should be backed up to UC server and password-protected on devices.

14.2. Does the research involve collection and storage of physical data (e.g., paper documents)?

☒ No.

☐ Yes. Please describe the secure storage procedures. [Click or tap here to enter text.](#)

Note: the HREC recommend that paper documents are either scanned to electronic copies and destroyed, or stored in lockable cabinets in lockable UC spaces (e.g., staff or student offices).

14.3. Are any comments or quotes from participants to be used in any publication or presentation?

☐ No.

☒ Yes. Please ensure participants are clearly informed in the information sheet, and consent to this in their consent form.

14.4. Are there plans to make these data available to researchers outside the research team?

☒ No.

☐ Yes. Please provide details. [Click or tap here to enter text.](#)

Note: the HREC recommend that confidentiality agreements are in place when sensitive or identifiable data is made available to external researchers. Please note that participants should be clearly advised on the Information sheet, and consent to this data sharing in the consent form.

14.5. Please confirm when the data will be securely destroyed

☐ 10 years after completion of the research project (Staff/PhD research).

☐ 5 years after completion of the research project (Master's research).

☐ On completion of the research project (Honours or undergraduate project research).

☒ Other. Please provide details. Data collected for this study will be held for up to 5 years for use in publications, and archived thereafter for combining / comparing with future data collections

Note: If data retention and destruction plans differ from the UC guidelines above, please provide the details and rationale. For example, some funders (such as MBIE) may require permanent or indefinite retention of the data.

14.6. Please indicate where data may be published or used (select all that apply).

- ☒ Academic or professional journal article(s).
- ☒ Academic or professional conference, seminar or workshop.
- ☐ Thesis (e.g., PhD or Masters) available in the UC Library.
- ☒ Dissertation or project report (e.g., Honours) NOT available in the UC library.
- ☐ Organisations (e.g., Government agencies, schools).
- ☐ Other. Please provide details. [Click or tap here to enter text.](#)

14.7. Will participants be offered a summary of the results?

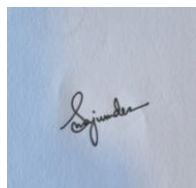
- ☒ Yes.
- ☐ No. Please provide the rationale. [Click or tap here to enter text.](#)

15. Ngā Tauākī me te Tukunga | Applicant declaration, signatures and submission

15.1. Researcher's Declaration

- ☒ I am applying for **Ethical Approval** for the research project as outlined above.
- ☒ The project has been accurately described in this application and I have included all the necessary documents and information to support this application.
- ☒ I will conduct this research within the bounds of any approval given by the Human Research Ethics Committee of the University of Canterbury.
- ☒ I will inform the Committee in writing should circumstances relevant to this application change, and if necessary obtain approval for an amendment.

Principal Researcher's Name: Sreeta Majumder



Signed (type or e-signature): [Click or tap here to enter text.](#)

Date: 30/09/2024

Note: The principal researcher is the student or staff member leading the research.

15.2 For Academic Supervisors of Student projects only (tick/check all that apply)

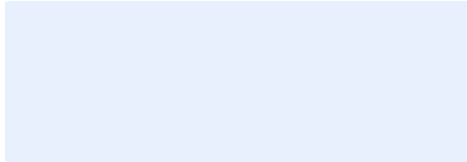
*Please note that applications for ethical approval **are not usually considered** if the student has not submitted their research proposal for registration.*

- ☒ This is a student project that does not require a research proposal OR

- ☒ The student has submitted or registered their research proposal for consideration.
- ☒ I have read the student's application for ethical approval including any appendices such as Information Sheets and Consent Forms as required.
- ☒ I undertake to work with the student on any revisions required by the University's Human Research Ethics Committee before these revisions are returned.

Academic Supervisor's Name: Annette M Mills

Signed (type or e-signature):



Annette M Mills

Date: 03/10/2024

15.3 Submission Instructions

Please email an electronic file (.pdf or Word format only) containing this completed application and please also separately attach all relevant documents clearly identified (e.g., study advertisement, Information sheet, Consent form etc.) to human-ethics@canterbury.ac.nz

Please include a list of references for any citations used in the Application Form below:

Click or tap here to enter text.