**Week 9**

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**Personal Development Workouts**



1. Watch the movie “Invictus”
2. Watch the London Real interview of David Goggins “You can't hurt me”



*Write a short description about this task*

*Invictus is a 2009 biographical sports film directed by Clint Eastwood and starring Morgan Freeman and Matt Damon, making it the third collaboration between Eastwood and Freeman after Unforgiven (1992) and Million Dollar Baby (2004). The story is based on the 2008 John Carlin book Playing the Enemy: Nelson Mandela and the Game That Made a Nation about the events in South Africa before and during the 1995 Rugby World Cup. The Springboks were not expected to perform well, the team having only recently returned to high-level international competition following the dismantling of apartheid—the country was hosting the World Cup, thus earning an automatic entry. Freeman portrays South African President Nelson Mandela while Damon played François Pienaar, the captain of the Springboks, the South Africa rugby union team.*

*Link to the folder containing your audio summary*

[*https://drive.google.com/file/d/1D59XLwkZjgEm0m1qeWbfOxmkQ8Dur13J/view?usp=drive\_link*](https://drive.google.com/file/d/1D59XLwkZjgEm0m1qeWbfOxmkQ8Dur13J/view?usp=drive_link)



*Write a short description about this task*

*“Can't Hurt Me” will show you how to get out of your comfort zone and push yourself in everyday challenges, regardless of your occupation and interest. Along with numerous examples from Goggins' personal experiences and other people's lives, the book provides actionable steps describing how to achieve your goals*

*Link to the folder containing your audio summary*

[*https://drive.google.com/file/d/1NH2buGsUW51g4Wh9hK5\_4mF3mdB0vgbk/view?usp=drive\_link*](https://drive.google.com/file/d/1NH2buGsUW51g4Wh9hK5_4mF3mdB0vgbk/view?usp=drive_link)



**Technical Workouts**



1. Optimization & Optimization techniques.
2. Machine Learning Introduction :
   1. ML basics
   2. Types
   3. Why is ML used?
   4. ML workflow
   5. Classification, Regression, Clustering Concepts



Task: Create python scripts for the above concepts and present them.



Note: Please don’t stick only to the concepts given above, you have to read more than that.



*Write a short description about this task*

*Optimization is a crucial aspect of machine learning (ML) algorithms and models. It involves the process of finding the best possible solution to a problem. In the context of ML, optimization aims to minimize or maximize a specific objective function by adjusting the parameters of the model. The ultimate goal is to improve the model's performance and make it more accurate and efficient.*



*Write a short description about this task*

*Machine learning is a subset of artificial intelligence (AI) that focuses on developing algorithms and models that enable computers to learn from data and improve their performance without being explicitly programmed. Instead of relying on traditional rule-based programming, ML algorithms use data patterns to make predictions, decisions, or solve problems.*



*Link to your code*

[*https://drive.google.com/file/d/1wJKvtCu2Rj0RxIUxt-PPKu5rE2qvobsD/view?usp=drive\_link*](https://drive.google.com/file/d/1wJKvtCu2Rj0RxIUxt-PPKu5rE2qvobsD/view?usp=drive_link)

[*https://drive.google.com/file/d/1GhvTwJOruQULpjAdjGvgGgrnM2L\_zVsx/view?usp=drive\_link*](https://drive.google.com/file/d/1GhvTwJOruQULpjAdjGvgGgrnM2L_zVsx/view?usp=drive_link)

[*https://drive.google.com/file/d/1F1ojtW\_qbbirR2-l3yDTHVhPvn3\_i2WJ/view?usp=drive\_link*](https://drive.google.com/file/d/1F1ojtW_qbbirR2-l3yDTHVhPvn3_i2WJ/view?usp=drive_link)

[*https://drive.google.com/file/d/1IvCfL1OQTFxbF7rqxyq3fiZyXNyuw71o/view?usp=drive\_link*](https://drive.google.com/file/d/1IvCfL1OQTFxbF7rqxyq3fiZyXNyuw71o/view?usp=drive_link)

[*https://drive.google.com/file/d/1sYMlCR0owi-qmt-qn3QaW0uhPrZJJj4I/view?usp=drive\_link*](https://drive.google.com/file/d/1sYMlCR0owi-qmt-qn3QaW0uhPrZJJj4I/view?usp=drive_link)

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[*https://drive.google.com/file/d/1h6BQwEHhhO-zhCDTMrc8Z4hbIs3cZHdE/view?usp=drive\_link*](https://drive.google.com/file/d/1h6BQwEHhhO-zhCDTMrc8Z4hbIs3cZHdE/view?usp=drive_link)

[*https://drive.google.com/file/d/15EctqOWhoZRmW8G5vGgcCcOs6zoJvDcQ/view?usp=drive\_link*](https://drive.google.com/file/d/15EctqOWhoZRmW8G5vGgcCcOs6zoJvDcQ/view?usp=drive_link)

[*https://drive.google.com/file/d/1lHAEH9mufzr7SNvc5TPkUFVle0MHCBSq/view?usp=drive\_link*](https://drive.google.com/file/d/1lHAEH9mufzr7SNvc5TPkUFVle0MHCBSq/view?usp=drive_link)





**Miscellaneous Workouts**



1. Practice typing for at least one hour each day. Finish as many chapters as possible as you can. Don’t spend more than an hour each day.
2. Prepare a topic for the tech seminar. Record and upload it on youtube as an unlisted video.
3. Conduct a Feedback session by the end of this week.
4. Prepare your progress video for the last week. Record and upload it on youtube as an unlisted video.



*Write a short description about this task*

*"Improve your typing skills with our engaging and interactive typing practice program! Whether you're a beginner looking to learn touch typing or an experienced typist aiming to boost your speed and accuracy, our platform has you covered. With a wide range of fun exercises and challenging lessons, you'll master the keyboard in no time. Track your progress, receive personalized feedback, and watch your typing proficiency soar to new heights. Start typing today and unlock the potential to be a faster and more efficient typist*

*Link to screenshot image*

[*https://drive.google.com/file/d/13s\_wE6c5iXDXN6Qcg0Fw5nCuKezLTpR7/view?usp=drive\_link*](https://drive.google.com/file/d/13s_wE6c5iXDXN6Qcg0Fw5nCuKezLTpR7/view?usp=drive_link)



*Write a short description about this task*

*For those unfamiliar with the term, DevOps is the combination of development (Dev) and operations (Ops) practices, fostering a culture of collaboration and communication between software developers and IT operations professionals. Its core principles aim to break down silos, automate processes, and deliver continuous value to end-users. DevOps is not just a set of tools or practices; it represents a fundamental shift in the way we build, deploy, and maintain software.*

*One of the primary drivers behind the DevOps movement is the need to respond to the ever-increasing demands of customers. Traditional development and operations methods often lead to slower release cycles and a lack of alignment with business objectives. But with DevOps, organizations can achieve faster time-to-market, higher quality software, and improved customer satisfaction.*

*Link to your seminar video*

[*https://youtu.be/qwEJy0J20J4*](https://youtu.be/qwEJy0J20J4)



*Link to the document containing notes for your feedback session*

[*https://drive.google.com/file/d/1WV7uMJJA3sFG-2cf05SCfNt1d5CTtlvI/view?usp=drive\_link*](https://drive.google.com/file/d/1WV7uMJJA3sFG-2cf05SCfNt1d5CTtlvI/view?usp=drive_link)



*Write a short description about this task*

*Machine Learning (ML) mathematics forms the backbone of this transformative field that enables computers to learn from data and make predictions or decisions without explicit programming. At its core, ML relies on various mathematical concepts and techniques to train and optimize models, enabling them to generalize patterns from the data they are exposed to.*

*The foundation of ML mathematics lies in linear algebra, probability theory, and calculus. Linear algebra provides the tools to understand and manipulate vectors and matrices, essential for representing data and model parameters. Probability theory helps quantify uncertainty and forms the basis for probabilistic models and decision-making under uncertainty. Calculus is used to optimize models by finding the best parameters that minimize or maximize a given objective function.*

*Link to your progress video*

[*https://youtu.be/jEKp5f-fgEo*](https://youtu.be/jEKp5f-fgEo)

