

Weekly Meeting

Agenda	Weekly Meeting 3
Objective	Presenting research progress
Date	25 March 2022
Time	1pm
Location	Microsoft Teams
Chair	William
Attendees	TBA

Agenda Items	Key Points/Actions	Led by	Duration
1: Welcome	<ul style="list-style-type: none"> Welcome by chair Introduce the member in the meeting 	CHAIR	<i>1-2 mins</i>
2: Introduction	<ul style="list-style-type: none"> Discuss issues in relation to research topics assigned 	CHAIR	<i>3 mins</i>
3: Sharing information	<ul style="list-style-type: none"> Each leader from research teams presents their progress (3 groups) 	Team	<i>45 mins</i>
4: Discussion	<ul style="list-style-type: none"> Progression review on each team Advice and recommendations 	CHAIR	<i>10 mins</i>
5: Wrap up	<ul style="list-style-type: none"> Next week's topic 	CHAIR	<i>5 mins</i>

Minutes	Weekly Meeting 3	
Date	25 March 2022	
Time	1pm – 2pm	
Location	Microsoft Teams	
Chair	William	
Attendees	TBA	
Point (Item)	Discussion (Record main points)	Action (Initials & due date)
<i>Data Engineering / Algorithm</i>	Vinay: <ul style="list-style-type: none"> Started 1:03pm Upskilling – creating random values Attributes – research (import random) ECGP/ECG Year/dates – keep record of time Privacy – random BMI (50 athletes data for simple testing) 	<i>MySQL/Spark</i> <i>MongoDB/NoSQL</i> <i>Exploring more platforms focused on long-term</i> <i>Exploring whether the company is financially capable of hosting a platform</i>
	Shashvat (algorithm): <ul style="list-style-type: none"> Presented Draft 1 Documentation of Algorithm With Training Model Graphs and expected steps to achieve prototype model. Exploration about Step- and Step-Down heart rate due to non-linear response of heart Discussion of non-linear discrete model equation and base flow chart model Limitations and how to optimized algo regarding confidence interval 	<i>Proceed with further updating of Documentation</i> <i>Prepare a roadmap for Oxy Algo / Prototype team</i> <i>Acquire data for the data engineering team</i>
	William: <ul style="list-style-type: none"> Time series regression (aggregate timeseries into numeric) KPI – Future race event and a database of historical races of a rider, can we predict the loss or gain of time for this rider, relative to his competitors? (Professional racers) 	<i>Document and develop web scrambler Dashboard?</i> <i>Prepare Roadmap for Time-series-algorithm</i>

<i>Benchmark</i>	<p>Chris:</p> <ul style="list-style-type: none"> Upskilling on GAM 	<p><i>Recommended GAM textbooks</i></p> <p><i>Provided materials</i></p> <p><i>Keep in touch with Jack</i></p>
<i>Sales Analysis</i>	<p>Anh: (1:06pm)</p> <ul style="list-style-type: none"> 2017 & 2018 dataset – graphs Marketability – fitness game development Number of players rising rapidly (>300 million players by 2024) Questions linking to Gaming Team <p>Gouri:</p> <ul style="list-style-type: none"> Using visualisations (histogram) Global Sales / platform 	<p>Fitness/exercise games include VR element/mobile app element</p> <p>How well the gaming mobile – marketability</p> <p>Design teams (add anything)</p> <p>Game builders (type of games they are building)</p> <p>Run some analysis – how games attracting in the market</p> <p>Sports / Racing (VR/IoT sensors)</p> <p>Mobile apps (exercise)</p> <p>Simulation games (next target)</p>
<i>Data Storage</i>	<p>Lucy:</p> <ul style="list-style-type: none"> MySQL Mongo MySQL Pro/Con comparisons Panel presentation Data scalability 	<p><i>DevOps – Data solution</i></p> <p><i>As scalability</i></p> <p><i>Agnostic solutions as much as possible</i></p> <p><i>Focus on upskilling</i></p>
<i>General Questions</i>	<p>Lucy:</p> <ul style="list-style-type: none"> Panel presentation <p>Vinay</p> <ul style="list-style-type: none"> Hours input? <p>William</p> <ul style="list-style-type: none"> Every hour counts Roadmap <p>Documentations</p>	<p><i>DevOps – Data solution</i></p> <p><i>120 hours (D above)</i></p> <p><i>100 hours (P or C above)</i></p> <p><i>Quality of work producing & types of activities involved in</i></p> <p><i>Document work</i></p> <p><i>Looking for dataset (put into hours)</i></p>