Webinar: ChatGPT: Water sector applications

ŧ	tion Details	
	Question	Answer
1	Will this webminar be recorded?	live answered
		Yes, the recording will be available within 2 business days on the AWS YouTube channel. Thank you thanks
—		
		G'day Brent,
		For the more popular LLMs it's unlikely the prompts you provide will be directly used to train the model in the
		future, developers would need to filter out the rubbish prompts (ie 2 + 2 now equals 5). I would be careful usin
		proprietary or confidential information when prompting LLMs anyway because there's no guarantee the data
		wont be leaked or accessed another way. There's been a few news articles on leaked data of recent like this:
		https://www.laptopmag.com/news/do-not-share-your-secrets-with-chatgpt-this-leak-shows-why
		there was also a bug with chatgpt a couple months back when other users prompt history was being shared
	My question is around what considerations are there for staff using sensitive data as	between accounts
	prompts for the language model. Is there a risk that sharing intellectual property may	
	result in that data being incorporated into the models future training? Should an	depending what service your organisation provides guidelines or restrictions should be implemented now its
2	organisation develop guidelines around what information can be supplied to the service?	grown in popularity
-		Should organisations push for secure (either locally hosted or private cloud) versions of these services?
_		organizations are concerned about inadvertently using confidential information for training an AI, also how to
		QA/QC the AI responses. We're definitely working on internal guidelines for how to incorporate AI as well as
		when you shouldn't.
2	Realistically most Hydrologic DATA should all be Open Source ?	Realistically most Hydrologic DATA should all be Open Source ?
		100% agree Rudy
-		Thanks, this is a very relevant question. In fact this happened to Samsung electronics not too long ago when
	Could up form the Line to form all the second	they were using ChatGPT. ChatGPT has now implemented a possibility to opt-out of your data being used in
	Could we force the LLM to focus the search space to a specific region or time period and	training etc. It is also important to note that this was with ChatGPT whilst their API has different (more
4	tune the output?	confidential) use policies
_		Yes you just need to provide the right prompt, this might cause a hallucination though so exercise with caution
		I asked GPT4 to clarify, see response below:
		Yes, you can guide ChatGPT to focus on a specific region or time period by providing more explicit instructions
		in your input. You can also fine-tune the model on a dataset tailored to your desired context in order to improv
		its performance in generating relevant responses. Here's a brief overview of these two methods:
		Providing explicit instructions:
		When you ask a question or provide a prompt, make sure to include details about the region or time period
		you're interested in. For example, instead of asking, "What were the primary occupations of people?", you
		could ask, "What were the primary occupations of people in ancient Egypt?" This helps the model to narrow
		down its search space and generate more focused responses.
		down its search space and generate more rocused responses.
		Fine-tuning the model:
		You can create a custom dataset that focuses on your desired region or time period and use it to fine-tune
		ChatGPT. This will help the model become more knowledgeable and generate more accurate responses in the
		ChatGPT. This will help the model become more knowledgeable and generate more accurate responses in the specified
		specified
		specified Great question Muhammad. From my point of view the AI Models can do a tremendous job in communicating
	How can AI language models help address issues of social and environmental justice in	specified Great question Muhammad. From my point of view the AI Models can do a tremendous job in communicating to different audiences and thereby enable informed citizens even if they previously had no technical education
5	How can AI language models help address issues of social and environmental justice in water management, particularly in marginalized and under-resourced communities?	specified Great question Muhammad. From my point of view the AI Models can do a tremendous job in communicating
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		Hi Lucas, you are absolutely right. This false information aka "Hallucinations" are a problem to be taken
	One thing that I find dangerous from chatGPT is that it shows innacurate information, but,	seriously. A low hanging fruit is to prompt the model right. So, before asking a question, tell the model to be
	because it is a sofisticated LLM, it seems right. What are the suggestions to use those Als	honest "If you don't know the answer say: I don't know".
ĝ	correctly so that the rubish can be separated from the right information?	More sophisticated solutions would include e.g. reinforcement learning with human feedback.
10	What do we call a "parameter" in that context? Is that the same as an artificial neuron?	What do we call a "parameter" in that context? Is that the same as an artificial neuron?
		yes, each neuron has a weight attached to it, called parameter
	Do we have the hardware revolution needed for such a huge training data processing in	
11	place now available? ??	Do we have the hardware revolution needed for such a huge training data processing in place now available? ??
		yes there are, NVIDIA is providing a number of them, but expensive to have at home!
		My view is crypto mining already created the revolution that ML training needed
_	https://chat.openai.com/ definitely can create code: The quality of the code is at times	
		https://chat.openai.com/ definitely can create code: The quality of the code is at times questionable. So be
12	2 questionable. So be careful !	careful !
_		live answered
	How much control do we have over the fine-tuning process? Can this process be done by	How much control do we have over the fine-tuning process? Can this process be done by the AI itself? Pros and
13	the AI itself? Pros and cons?	cons?
		good point, there are different ways of writing "prompts", and one can use LLMs to write that as well.
14	ChatGPT can write RASController code	Brilliant!
	CHatGPT is censured. Has the model been trained with inappropriate content (how to	
	create a bomb) and therefore it is potentially aware of sensitive information or it has just	these models have no understanding over good/bad, it is human that defines these for them. So it is very much
	been trained to detect what is inappropriate in order to avoid an asnwer that it has not	related to what human has told them! There is no ground truth in many areas aand there comes human
4.7	been trained to detect what is mappropriate in order to avoid an assiver that it has not	-
12	been trained for?	interpretations
		Indeed true. Does this mean that the training data was pre-filtered for potentially dangerous data or ChatGPT
		has been trained with EVERYTHING, but censored after training before public distribution, in your opinion? Thx
_		for your time, much appreciate it!
	How can we effectively balance the use of AI with human judgment and expertise in water	
	management, and what strategies can we employ to ensure that AI is used as a	
16	complement rather than a replacement to human decision-making?	very good point, the best way of using AI is to use it where human lack and not a replacement.
	· · · · · · · · ·	Thank you very much
_	There is obvious dangers on relying on AI alone just like automated Tesla cars- same goes	
17	with ChatGPT.	
		There's already legal disputes arising around what AIs have already been trained on and if its proprietary
		(ChatGPT, DALL-E, MidJourney ect). Getty Images is suing Stability AI, creators of popular AI art tool Stable
		Diffusion, link here https://www.theverge.com/2023/1/17/23558516/ai-art-copyright-stable-diffusion-getty-
		images-lawsuit
	If LLMs have been trained using data on the internet, will be there any copyright breach	
	when it uses the data for training? If it only uses one category of data, like news, or IT	I would be careful using LLMs outputs for comercial use without doing due dillegence that a copyright breach
18	blogs, it will be highly biases towards these industries.	wont occur
		Agreed Kyle - using LLMs (or any AI model) we need to ensure due diligence, as well as being aware of Bias.
		Similar to humans, bias is always present, so any model trained on biased data will also be biased.
11	ANUICA being a without David 2D Mardal, can be existed by Chatr Fox Fusionals.	Similar to humans, bias is always present, so any model trained on biased data will also be biased .
19	ANUGA being a python Based 2D Model, can be creted by Chat: For Example: import anuga	
	H.D. Constant demotion	
	# Define the domain	
	domain = anuga.create_domain_from_regions(
	[(0, 0), (0, 1000), (1000, 1000), (1000, 500)],	
	boundary_tags={'left': [0], 'top': [1], 'right': [2], 'bottom': [3]},	
	maximum_triangle_area=100,	
	maximum_triangle_area=100, mesh_filename='catchment.msh'	
	mesh_filename='catchment.msh')	
	mesh_filename='catchment.msh') # Set the initial water level	
	mesh_filename='catchment.msh')	
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x')	In this example, we first create a rectangular domain using create_domain_from_regions(), which takes a list of
	mesh_filename='catchment.msh') # Set the initial water level	In this example, we first create a rectangular domain using create_domain_from_regions(), which takes a list of vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x')	
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient domain.set_quantity('friction', 0.03)	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and the Manning roughness coefficient using another call to set_quantity().
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient domain.set_quantity('friction', 0.03) # Define the rainfall	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and the Manning roughness coefficient using another call to set_quantity(). Next, we define the rainfall using the Rate_operator() function. Finally, we evolve the simulation in time using a
	mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient domain.set_quantity('friction', 0.03)	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and the Manning roughness coefficient using another call to set_quantity().
	<pre>mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient domain.set_quantity('friction', 0.03) # Define the rainfall rainfall = anuga.Rate_operator(domain, rate=1.0)</pre>	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and the Manning roughness coefficient using another call to set_quantity(). Next, we define the rainfall using the Rate_operator() function. Finally, we evolve the simulation in time using a for loop that calls evolve(), which takes a yieldstep and finaltime as arguments.
	<pre>mesh_filename='catchment.msh') # Set the initial water level domain.set_quantity('stage', expression='0.1*x') # Set the Manning roughness coefficient domain.set_quantity('friction', 0.03) # Define the rainfall rainfall = anuga.Rate_operator(domain, rate=1.0) # Evolve the simulation in time</pre>	vertices and a dictionary of boundary tags as arguments. We set the initial water level using set_quantity(), and the Manning roughness coefficient using another call to set_quantity(). Next, we define the rainfall using the Rate_operator() function. Finally, we evolve the simulation in time using a for loop that calls evolve(), which takes a yieldstep and finaltime as arguments. After the simulation is complete, we save the results using save_depth_and_discharge(), which saves the water
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The reason prompt engineer is saught after now is, if you give ChatGPT the right prompts,	
say the specs/parameters/web docs of the software you use/project you are working on,	
you build the knowledge of the model regarding that specific topic. Then when you ask it	
to do something specific/clarify something in that area, it does it to near perfect accuracy.	
Obviously, you need to check it and make sure it is right, but 99% of the time, with the	
24 correct prompts, its answered your query correctly/provided you the right solution :)	
As far as I know, ChatGPT3 was trained on a snapshot of the internet for year 2021. Now	
there are two questions: 1. Could we ask questions about webpages today? 2. How much	True, it is trained on data before 2021! Regarding trust, if you are asking facts, it might be challenging, as it
25 we can trust the answers without fact checking?	"generates" text based on the info it has been exposed to including those facts.
	Sort of. For now you would have to use a programmatic approach, accessing their API and transform the pdf to
	raw text in a programming language of your choice. Afterwards get embeddings (vector representation of text
	data).
26 Can we have chatGPT read through PDF reports ??	However, i presume it should soon become easier via chatgpt plugins.
ChatGPT has a problem with referencing.	
https://www.theguardian.com/commentisfree/2023/apr/06/ai-chatgpt-guardian-	
27 technology-risks-fake-article	True! It is generating, not refering to facts, yet
28 Hi Chris, were you using ChatGPT or GPT-4 in all these prompts?	ChatGPT.
Wouldn't ChatGPT's training, whih ended some time ago, limit its ability to "review the	
RAS Solution website?" In other words, aren't we dealing with what it already has learned	
29 (a couple of years ago) and cannot ask it to lern new stuff or do something new?	I think you're correct John.
	Thanks, Chris. Very insightful questions and, as always, a great and useful presentation.
1.My question is there any way that we can ask chatGPT to check the Internet for the	
available model or avaibale dataset related to model our desired study area. 2. Can we	
train chatGPT used H&H model to provide us the preliminary results 3. Can we combine	On 1. there will be plugins available soon enabling ChatGPT to browse the web. You could also use a
H&H model like HEC-RAS with ChatGPT. Maybe the chatGPt can used previous results to	programmatic approach using the API and crawl some websites. 2. GPT, as i pointed out in my brief appearance,
31 make the process of calibration and validation easier.	can struggle with the size of data we typically handle.
32	
Once we train an LLM for the 1st time, would they keep training themselves on that subject	
if we want them to ??	You will need to keep prompting them new material to train (supervised vs unsupervised learning)
Is it worth paying for the ChatGPT premium or is the free version good enough? I refuse to	
34 pay to test this myself, at least for now.	Absolutely worth it. Much fastersaves a ton of what would otherwise be a ton of wasted (waiting) time.
	I pay for the premium version but I use it very often for data analytics and software dev, it's worth it for me
	I think it is hard to find a general answer to this. This depends on you use cases and frequency of use.
	It sure will become very interesting as soon as you can use Tools (like wolfram alpha) in the paid version.
	Otherwise you could also pay on an on-demand basis for the openai API access. This should usually be cheaper
	and they also offer access to a frontend (website) where you can play with different models and parameters
	similar to chatGPT.
As a water modeler, we do repetitive task especially when it comes to GIS workflow. I	
35 know we could create our own workflow in QGIS, but could Al be able to do that?	Engineers are already creating plugins that can do this, they will become more popularised in the coming years
35 know we could create our own workflow in QGIS, but could Al be able to do that? should engineers have to declare if ChatGPT or other Al Tools have been used in model	Engineers are already creating plugins that can do this, they will become more popularised in the coming years
	Engineers are already creating plugins that can do this, they will become more popularised in the coming years I think yes.
should engineers have to declare if ChatGPT or other AI Tools have been used in model	
should engineers have to declare if ChatGPT or other AI Tools have been used in model 38 builds or assessments? Are there regulatory risks or gaps around this?	I think yes.
should engineers have to declare if ChatGPT or other Al Tools have been used in model 38 builds or assessments? Are there regulatory risks or gaps around this? should engineers have to declare if ChatGPT or other Al Tools have been used in model	I think yes. Good luck making engineers do anything Jonathan! I think we shouldnt make them declare anything but if they
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50	If I ask the same question to ChatGPT and QChatGPT, am I likely to get the same response? Engineers are generally under-trained in mathematics and statistics, does Engineering	yes it happens several times for me.
	training need to be updated to better equip engineers with these skills to appropriately	
	analyze and critique data generated from AI tools? (Hopefully not too quickly so	100% agree with this, water engineers should have a greater understanding of data analytics / stats otherwise
51	mathematicians like me can still keep our jobs :p)	we wont fully understand the processes and limitations behind what we do
52	We use AI models for water treatment and wastewater treatment plant models and optimization at KDX.ai	At Jacobs we us Al in our AquaDNA product. The key thing is you need input data for it to work - so need sensors (IoT)
	We use AI models for water treatment and wastewater treatment plant models and	Agree - data availability and quality is always key. The first rule of modelling still applies: garbage in means
52	optimization at KDX.ai Would love to hear from someone using in wastewater modelling preferably in InfoWorks	garbage out.
54	ICM	Would love to hear from someone using in wastewater modelling preferably in InfoWorks ICM
		We use AI for wastewater treatment, but I know that a company called Kando have used AI for wastewater
		network water quality modelling.
ſ	Would love to hear from someone using in wastewater modelling preferably in InfoWorks	by 'we' I mean the compnay I work for, KDX.ai. Feel free to reach out if you are interested in chatting about AI
_	ICM Thank you Kakea Nice presentation	for wastewater networks.
50	Thank you Kobra, Nice presentation.	Thank you Kobra, Nice presentation.
-0	I wonder if Chat GPT will be able to read data as attached files such as excel files, gis	i presume this will soon be taken care of via plugins (which are not yet available to a broad audience). You can also use the api and preprocess e.g. excel with a programming language of your choice and convert it to raw tex to feed it to chatgpt (either via embeddings or copy paste). But then again, as chatgpt is great with messy data, why not try copy pasting the excel data directly (it doesn't have to look pretty for us humans in the pasted when the thetar is the target of the target of the target of the source of the target of the source of the target of the source of the target of the target of the target of the target of the source of the target of the target of the target of the source of the target of targe
58	layers and do the required analysis? Thankyou	version, chatgpt will handle this). Just remember to check afterwards for correctness :)
ſ	as AI progress, do you see humans/engineers as a final step of	In many jurisdictions, you'd immediately lose your engineer (or other) designation for not being fully involved in the work and not properly reviewing it. Would you take legal and ethical responsibility for peoples lives from a
59	stamping/certifying/approving, and take assoicated responsibilitie?	software known for hallucinations?
		yes and no, Yes, when the results are certified and approved by engineers (who will take all responsibliities,
		regardless of where the results come from). No, when results are not reviewed by humans
	Hello from Canada! Will this recording be shared so thise who have to leave early can pickup where they left off? Also, the questions here are very good. Will the questions and answers also be shared?	The webinar is recorded and will be available on our website and YouTube Channel within 2 business days. The Q&A file will also be shared on our website. Don't forget to subscribe. Subscribe to YouTube https://www.youtube.com/channel/UC0wLV7P2YPK6jz5x5ImmCrg?sub_confirmation=1 Thanks AWS *********
69	Thank you :)	
70	thank, have a good day	
ſ		Yes this is very easy to do with tools like ChatGPT, you will just need to prompt it correctly, I provided an
	Can I develop a model, then have a language learning model write a model development summary report?	example (attachment 1). The more details you provide the better the report, just be careful with providing confidential information
	What are the protocols and best practices for referencing and crediting Chat GPT or other LLMs? D	Depending on the LLM, some are not for commercial use or will require specific referencing or are non- proprietary, you will need to research the specific LLMs terms and conditions you are interested in using. I would exercise caution when using outputs for reports and research without tracking down the proper credits, as LLMs are trained on databases of existing work the potential for plagiarism is high. There are emerging papers that specifically discuss the use of LLMs for writing research papers, example: https://www.sciencedaily.com/releases/2023/03/2303310.316.htm
		Al models are very poor with extrapolating (in LLM this creates "hallucinations") and from my experience no hydraulic model is the same (each comes with a surprise / twist that requires engineers judgement). It can be used to "automate the boring tasks" like META's new released "Segment Anything" for roughness mapping and GIS. I suspect clever hydraulic engineers will keep building more and more Al tools to automate these types of
_	Can an AI assistant learn from me as I build my hydraulic models and over time, with sufficient learning, build them for me?	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next.
	sufficient learning, build them for me? Can I have an AI assistant download all of my material on The RAS Solution, and take over	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny
	sufficient learning, build them for me?	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny response towards the end ^(C) See response to (3), hydraulic models (ie TUFLOW and FLOW3D) are already very user friendly and provided
	sufficient learning, build them for me? Can I have an AI assistant download all of my material on The RAS Solution, and take over	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny response towards the end 😁 See response to (3), hydraulic models (ie TUFLOW and FLOW3D) are already very user friendly and provided broad enough error codes that most issues are pre-emptively troubleshoot. Engineers judgement will most likely still be necessary due to site specific problems and AI extrapolating issues.
	sufficient learning, build them for me? Can I have an AI assistant download all of my material on The RAS Solution, and take over as my technical support bot?	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny response towards the end ()) See response to (3), hydraulic models (ie TUFLOW and FLOW3D) are already very user friendly and provided broad enough error codes that most issues are pre-emptively troubleshoot. Engineers judgement will most likely still be necessary due to site specific problems and AI extrapolating issues. There's already legal disputes arising around what AIs have already been trained on and if its proprietary (ChatGPT, DALL-E, Midlourney ect). Getty Images is suing Stability AI, creators of popular AI art tool Stable Diffusion, link here
	sufficient learning, build them for me? Can I have an AI assistant download all of my material on The RAS Solution, and take over as my technical support bot? Can I have an AI learn how to troubleshoot a model? Will AI's talk and share with other AI's? How do we protect proprietary and sensitive	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny response towards the end (2) See response to (3), hydraulic models (ie TUFLOW and FLOW3D) are already very user friendly and provided broad enough error codes that most issues are pre-emptively troubleshoot. Engineers judgement will most likely still be necessary due to site specific problems and AI extrapolating issues. There's already legal disputes arising around what AIs have already be not and if its proprietary (ChatGPT, DALL-E, Midlourney ect). Getty Images is suing Stability AI, creators of popular AI art tool Stable Diffusion, link here https://www.theverge.com/2023/1/17/23558516/ai-art-copyright-stable-diffusion-getty-images-lawsuit
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	sufficient learning, build them for me? Can I have an AI assistant download all of my material on The RAS Solution, and take over as my technical support bot? Can I have an AI learn how to troubleshoot a model? Will AI's talk and share with other AI's? How do we protect proprietary and sensitive	tasks. So the complex, site specific problem solving will be left up to the human. A core part of my business (Forward Hydro) is around this, with some tools to be released late this year or next. I suspect ChatGPT may have already done this, I provided an example (attachment 3). The AI provided a funny response towards the end 😇 See response to (3), hydraulic models (ie TUFLOW and FLOW3D) are already very user friendly and provided broad enough error codes that most issues are pre-emptively troubleshoot. Engineers judgement will most likely still be necessary due to site specific problems and AI extrapolating issues. There's already legal disputes arising around what AIs have already been trained on and if its proprietary (ChatGPT, DALL-E, MidJourney ect). Getty Images is suing Stability AI, creators of popular AI art tool Stable Diffusion, link here https://www.theverge.com/2023/1/17/23558516/ai-art-copyright-stable-diffusion-getty-images-lawsuit Plugins are already being developed to allow AI tools to communicate with each other, there are many already plugin

	My machine learning hydrology paper attempted something very similar to this except for calibrating
	hydrological models, a similar approach to what I took would be a good starting point. I think a neural network /
	Al to do this could be developed and trained relatively easy to aid in operators, the issue being Al models
	struggle with time series data and extrapolating results which would be problematic when a rare event (ie
	brisbane 2011 floods) occurs with little to no historic data and the AI starts extrapolating operations. An
What about reservoir and canal operations? Can an AI assist operators with gate	alternative approach where 100's of thousands of scenarios are stored in a database and ensembles of the most
openings/closings in advance of floods? Imagine an AI running thousands of scenarios in a	similar inputs are selected through a lookup to aid operators in exercising their own engineering judgement
few seconds and then suggesting the one with the best outcome.	may be a more appropriate approach.
	I can also see plenty of potential litigious issues if an AI is used to inform on operations in advance of a flood. IE
	if my house has flooded due to a decision made by a "black box" who is liable?
	machine learning paper available here
	https://www.surfacewater.biz/wp-content/uploads/2021/12/HWRS2021 Paper 31 Kyle Thomson .pdf
	Calibrating models and better statistical methods for estimating model parameters. There's very smart
	engineers (ie Dr Monte Azmi) with papers on statistical approaches similar to those used in training and testing
	(when developing a machine learning algorithm) that would provide valuable insight if applied to water
What are we not even thinking about with regard to AI and water modeling?	modelling.
	My theory is there will be consultants who use AI to deliver work like AI managers, but they wont understand
What are the concerns? Will it come to a point where we are AI managers, and no longer	the finer (important) details and outcomes of the hydraulic assessments. We will read about them in court cases
hydraulic modelers?	one day (see my earlier responses on engineering judgement and AI extrapolation)
	I think AI tools will speed up the rate of completing projects and delivering work. Go back 10 years and it would
	take a team of engineers / hydrologists to deliver a flood study, and take them maybe 6 to 12 months. Now they
	can be delivered to a greater level of detail in <1 month by a single engineer (depending on the study). With Al
	fewer engineers will exist in the industry and they will be delivering alot more work than now, I think the bar to
	entry will be alot higher. Most grads I see struggle to pick up tools like TUFLOW without significant oversight,
utiliat chat CDT 1184 at an inclusion download at the an inclusion officiant (as hath)?	
Will AI, Chat GPT, LLM, etc. make us dumber over time, or just more efficient (or both)?	good luck when they're expected to understand fluid dynamics and operate a range of automation / Al tools,
Example: Google Maps has made me very bad at finding my way around (without Google	and stay on top of publications and standards. This wont be good for most engineers as the knowledge bar to
Maps), Autocorrect has made me a bad speller, etc.	entry for senior / certifying technical roles will be too high.
	For day to day life AI will definitely cause a trend towards idiocracy, why exercise the problem solving or critical
	thinking part of your brain when the machine trained on the sum of all human knowledge will just tell you. My
	concern is who trains the machines.
	My hydrology ML paper is here: https://search.informit.org/doi/epdf/10.3316/informit.342934168443489
	and flash back to surfacewater.biz, there's a free copy here:
	https://www.surfacewater.biz/wp-content/uploads/2021/12/HWRS2021 Paper 31 Kyle Thomson .pdf
	You also have Jordan Maultby's papers on AI for GIS Roughness:
	https://www.surfacewater.biz/wp-
	content/uploads/2021/11/20210427 FMA21 ArtofRoughness FINALPaper.pdf
	which very interestingly, recently META has released "Segment Anything" which would be a major improvement
	on Jordans early investigation, more info here:
	https://segment-anything.com/
	and you might have seen videos like this on linkedin:
	https://www.linkedin.com/posts/robcsloan_geospatial-segmentation-earthobservation-ugcPost-
Thank you :) thank, have a good day	https://www.linkedin.com/posts/robcsloan_geospatial-segmentation-earthobservation-ugcPost-