

## ABOUT



Abdurrahman  
Aweis



### PROFILE

I am a Civil Engineer. A very trustworthy, hardworking, punctual, reliable, and honest person who is capable of working well both as part of a team and on their own initiative. A devoted individual with a professional and proactive approach, I have some knowledge of civil, water, and energy works, all of which are interconnected in the engineering industry.

My experience includes hydrological modeling, where I use tools such as HEC-HMS, SWAT, and QGIS to study water resources under different climate scenarios. I am flexible and open to using a range of engineering methods, always ready to learn new techniques to ensure each project succeeds.

My main interest is to understand how water systems respond to changes in climate issues, using hydrological modeling approaches, like the [SWAT] Model.



### Assessing the Impact of Climate Change on Streamflow & Evapotranspiration in the Beletweyne Sub-Basin Somalia, Using SWAT Model with CMIP6 for future Climate Analysis

I'm currently working on the above research project, which addresses how climate change is affecting streamflow and evapotranspiration in Somalia's Lower Webi Shebelle, a case study in Beletweyne sub-basin, using the SWAT model. I am analyzing current water resources and projecting future climate scenarios to articulate how changing rainfall and temperature patterns threaten agriculture, daily water supply, river streamflow, and natural habitats in this Sub-basin, Beletweyne. My work highlights the urgent challenges facing approximately half a million people relying on this Webi Shabelle Beletweyne, and I will Inshallah, suggest practical steps to help local communities better manage their water resources sustainably and build resilience against climate risks.

This work is guided by Professor Balaji Narasimhan in the Civil Engineering Department, Hydraulics & Water Resources Engineering Division, at the Indian Institute of Technology Madras.