Worksheet

Aalok Sharma Kafle	• **Literature Review**
	• **Data Compilation**:
	  o TWDB Well Quality Data
	  o SSURGO Params using Python / QGIS (Organic Matter, %Clay, LL, PI, pH)
	• **Exploratory Data Analysis**
	  o X-X correlation and X-Y correlation
	  o Feature Importance
	• **Initial Coding** for LR, NBC and KNN models
	• **Fishnet** train-test split for KNN.
	• Variable Selection and Analysis of **Ensemble 1**

Ademola O Ibironke	• **Literature Review**
	• **Data Compilation**:
	  o TWDB Well Depth Data
	  o Landcover NLCD (Extraction / Recoding)
	  o SSURGO (Soil Texture, Slope, Elev, sandtotal, ksat, awc)
	• Correlation/Feature Imp for Ensemble 2 parameters
	• Variable Selection and Discussion of **Ensemble 2**
	  o KNN2, LR Model 2 and NBC Model 2

Deseyi D John	• **Literature Review**
	• **Data Compilation**
	  o PRISM precipitation and temperature data for each well
	  o SSURGO using QGIS (Clay, EC, kffact, kwfact, wsatiated)
	• Correlation/ Feature Imp. for Ensemble 3 parameters
	• Variable Selection and Discussion of **Ensemble 3**
	  o KNN3, LR Model 3 and NBC Model 3

Signed
Aalok Sharma Kafle
Ademola O Ibironke
Deseyi D John