U1 Sequence Model

Get log files distilled for a number of features (1.03:23, 1.34.45)
Main Intent: Understand what data means. (2.17:13)
Sub-intent: See what things are correlated and decide if questionnaire can be trusted (1.09:49, 1.11:54)

Select machine learning algorithm (Somewhere on tape 2)

Implement machine learning algorithm (1.03:00, 1.18:00)

Feed data into machine learning learning algorithm

Import into excel. (1.22:45)

Sort by highest correlation. (1.23:15)

Look for spreadsheet to translate scalars of feature back to feature vectors. (1.21:00, 1.21:48, 1.25:50)
Sub-intent: Examine and understand correlations. (1.37:00)

Trigger: Spreadsheet lost.
User must re-derive formula (1.25:50)

Open old spreadsheet from previous study (1.26:15)

Write formula to translate feature scalars into vectors (1.30:10)

Apply translation formula to all rows in the spreadsheet (1.31:00) (1.40:00)

Test formula for sanity (1.31:10)

Look for Java program to translate tuples into English (1.33:30)

Write English name of a pair of features into spreadsheet for a correlation (1.36:00)

Reason about correlation. Watch for interesting patterns. (1.41:00)

Are top 10 correlations labeled?

NO

YES

Ready to begin reasoning about correlations?

NO

Switch to sheet which contains another way of analyzing correlations. (1.40:00)

YES

Translation

Reasoning about correlations

Trigger: User notices he needs more information about correlations. He can't actually interpret what he has (1.44.15)
Goes back to code for machine learning algorithm. (1:46:00)

Change code to produce data he wants
(1.48:45)

Discovers typo in code (1.50:00)

Adds column to spreadsheet so that he can import incoming data. (1.52:00)

Imports new data to Excel (1.52:00)

Cuts and pastes from imported Excel file into performance orientation spreadsheet. (1.53: 00)

Checks that new data is lined up with existing data (1.53:25)

Trigger: Notices that he overwrote an extra column. (1.53:45)
Undoes changes (inferred)

Insert extra column (1.54:45)

Copies new data into spreadsheet (1.54:55)

Checks that new data is lined up (1.55:55)

Deletes extra parameter number column (1.55:00)

Sorts by parameter number (1:55:20)

Trigger: Rows are mangled because user didn't select the right number of columns before sorting (1:55:20)
Undoes changes (1:55:30)

Resorts (1:55:30)

Translate a pair of feature names into English labels which are easier to understand. (2.05: 00)

Think about why variables are correlated.

Trigger: Notices apparent contradiction (2.08:13)
Checks to see if he made an error in labeling in his program (2.08:53)