**Independent Study:**

9/2 – 9/9: Read Science paper, implement Seldonian algorithm from aisafety.cs.umass.edu

**Fairness:**

9/9 – 9/16: Implement equation parsing into parse tree

9/16 – 9/23: Implement bound propagation through the parse tree

9/23 – 9/30: Debug / generate results using synthetic data

9/30 – 10/7: Debug / generate results using real data

10/7 – 10/14: Investigate an extension

10/14 – 10/21: Implement extension

10/21 – 10/28: Implement extension

10/28 – 11/4: Clean code, create library interface for others to use

11/4 – 11/11: Create tutorial for example usage (and/or adding to IBM 360)

11/11 – 11/18: Create github page for library, share publicly (and/or adding to IBM 360)

Extensions: Deep learning, optimizing bound propagation, optimizing candidate split, etc.

**Safe RL:**

9/9 – 9/16: Implement IS, PDIS, WIS, CWPDIS

9/16 – 9/23: Implement Cis: Hoeffding, MPeB, Anderson, LMT, BCa, percentile bootstrap, t-test

9/23 – 9/30: Create Seldonian RL algorithm. Generate gridworld results.

9/30 – 10/7: Debug / generate results on other MDPs

10/7 – 10/14: Investigate an extension

10/14 – 10/21: Implement extension

10/21 – 10/28: Implement extension

10/28 – 11/4: Clean code, create library interface for others to use

11/4 – 11/11: Create tutorial for example usage

11/11 – 11/18: Create github page for library, share publicly

Extensions: Doubly robust, deep networks, optimizing bound propagation, optimizing candidate split, etc.