

Super Saiyans

Project Objective

**Fake news detection using
Sentiment Analysis**

Objectives & Progress

- **Enhance User Interface**
 - Support url pasting
 - Support Chromium web extension
- **Model with statistically significant accuracy (~70%)**
 - Improved Feature Selection
 - Recreate Model using BERT
- **Deploy Model to Azure Cloud Environment**

Plans for coming week

- **Evaluation**
 - Evaluate Model at the Sentiment Level
 - Evaluate Model at the Final Prediction Level
- **Set up CI/CD** (quality control)
- **Enrich model** (Sentiment, f1-score, recall, etc)
- Schedule Meetings With Mentors
- Report and Documentation
- Documentation

Documentation

 Model Documentaion 	 me	11:07 me	3 KB	
 Integration Documentation 	 me	3 Jul 2023 me	43 KB	
 Feature Selection Documentation 	 me	10:38 me	1 KB	    
 DesignProposalChoice1_Sentiment.pdf 	 me	11 Jun 2023 me	158 KB	
 Deployment 	 me	6 Jul 2023 me	1 KB	
 Academic References 	 me	4 Jul 2023 me	1 KB	

Demo of some aspect

<https://fakenewsnlp.azurewebsites.net/>

Tasks assigned

NEEDS MORE TAUGHT 5 ISSUES	TO DO 2 ISSUES	IN PROGRESS 9 ISSUES	DONE 7 ISSUES ✓
<p>User wants to seamlessly paste text and gauge whether the piece of text is fake news or not</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-14</p> <p>KS</p>	<p>Add sanitization to backend</p> <p>FRONT-END BACK-END INTEGRATION</p> <p><input checked="" type="checkbox"/> SUP-67</p> <p>KS</p> <p>Sanitize user input</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-55</p> <p>J</p>	<p>Train BERT Model</p> <p>CREATE SENTIMENT DETECTION MODEL</p> <p><input checked="" type="checkbox"/> SUP-65</p> <p>MM</p> <p>Test BERT Model</p> <p>CREATE SENTIMENT DETECTION MODEL</p> <p><input checked="" type="checkbox"/> SUP-66</p> <p>AA</p> <p>Front-end bug fixes</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-48</p> <p>J</p> <p>Create Web Scraper</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-70</p> <p>J</p> <p>Create Feature Selection</p> <p>CREATE SENTIMENT DETECTION MODEL</p> <p><input checked="" type="checkbox"/> SUP-64</p> <p>N</p> <p>Find Users to test the app</p> <p>TESTING</p> <p><input checked="" type="checkbox"/> SUP-68</p> <p>AA</p> <p>Create Cloud Environment</p>	<p>Deploy Model to the Backend</p> <p>FRONT-END BACK-END INTEGRATION</p> <p><input checked="" type="checkbox"/> SUP-42</p> <p>✓ MM</p> <p>Reformat UI Code</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-13</p> <p>✓ J</p> <p>Fix Integration so it runs on all machines</p> <p>FRONT-END BACK-END INTEGRATION</p> <p><input checked="" type="checkbox"/> SUP-56</p> <p>✓ KS</p> <p>Create plugin</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-43</p> <p>✓ KS</p> <p>Create Slides for interim presentation</p> <p>DOCUMENTATION AND REPORTING</p> <p><input checked="" type="checkbox"/> SUP-49</p> <p>✓ S</p> <p>Create Branch that supports Large files</p> <p>CREATE SENTIMENT DETECTION MODEL</p> <p><input checked="" type="checkbox"/> SUP-29</p> <p>✓ AA</p>
<p>Create smooth and dynamic user interface that supports multiple screen sizes</p> <p>CREATE USER INTERFACE</p> <p><input checked="" type="checkbox"/> SUP-32</p> <p>KS</p>			
<p>Gather and clean Data Set</p> <p>CREATE SENTIMENT DETECTION MODEL</p> <p><input checked="" type="checkbox"/> SUP-23</p> <p>S</p>			
<p>Document Azure</p> <p>DOCUMENTATION AND REPORTING</p> <p><input checked="" type="checkbox"/> SUP-47</p> <p>N</p>			
<p>Distribution of workload</p> <p>DOCUMENTATION AND REPORTING</p> <p><input checked="" type="checkbox"/> SUP-58</p>			