**Senior Project Weekly Status Report**

**Student Name:** Adam Nielsen **Email:** adamnielsen7@gmail.com

**Phone or Zoom Contact:** 9074417748

**Project Title:** NLP resume chatbot

**Team Members (if applicable):**

**Project Description:** A web application chatbot that utilizes deep learning to respond to questions about my resume or life.

**Technologies Used:** tensorflow, javascript, database(?), containers(?)

**GITHub URL: https://github.com/AdamNielsen7/Senior-Project**

**(Add MountainDad as collaborator)**

**Week 1: 4/24/21**

*Overall Status (on-schedule, behind, ahead):* on-schedule

*Number of hours worked this week:* 3.5

*Total number of hours worked on the project thus far:* 3.5

*Number of total hours anticipated at completion:* 126

*Accomplishments:* Phone Call with Brother Kumar, researched similar projects (https://stackabuse.com/python-for-nlp-creating-a-rule-based-chatbot/)

*Challenges:* finding similar projects online, I’m travelling right now so not many hours this week.

*Plans / Goals for next week:* finish project proposal, create github repo, research

*SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):*

Brother Kumar seems nice. I am looking forward to this project and this class!

*Other comments for the instructor:* It was great talking with you!

**Week 2: 5/1/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week: 6.5

Total number of hours worked on the project thus far: 10

Number of total hours anticipated at completion: 126

Accomplishments: Researched possible API and third party software to use in project. Looked into AWS. Completed Project proposal

Challenges: N/A

Plans / Goals for next week: begin requirements specification, chatbot requirements

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Tkinter is a quick UI library for python

.exe files include all files necessary to run program (including libraries which can be hefty at times)

Pyinstaller to create .exe files in python

Other comments for the instructor:

None

**Week 3: 5/8/21**

Overall Status (on-schedule, behind, ahead): behind (but will catch up in the coming week)

Number of hours worked this week: 3

Total number of hours worked on the project thus far: 13

Number of total hours anticipated at completion: 126

Accomplishments: Found a few more articles on NLP and chatbots. Started work on requirements specification for chatbot component.

Challenges: Travel. I was not able to put as many hours in this week, but I expected that.

Plans / Goals for next week: Finish requirements specification for chatbot component, put in a few extra hours to catch up. If I have time, I will also begin research on what will be required to host the program. I read a few articles that sound like it will not be as complicated as I expected.

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week): I’ve heard a little about the MVC model before, but I’m interested in learning more about it. The example was interesting, but I would like to dive in more myself some time as to why it is so useful.

Other comments for the instructor:

**Week 4: 5/15/21**

Overall Status (on-schedule, behind, ahead): on-schedule

Number of hours worked this week: 7

Total number of hours worked on the project thus far: 20

Number of total hours anticipated at completion: 126

Accomplishments: Began requirements specification, began writing corpus of text, started testing chatbot logic

Challenges: I decided to change the scope on my project a little. Instead of logging all interactions to a database I will move that to a stretch goal and focus on getting the normal chatbot up and running. I still need to decide if I will use a tensorflow API to run the chatbot locally or if I will need to have it running on the cloud.

Plans / Goals for next week: Finish requirements specifications

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week): I didn’t realize git allowed for so much customization! After learning more about it I want to see what other cool features git has.

Other comments for the instructor: Things are going well! You mentioned when we talked you like to visit national parks, I got the change to visit the great dunes national park this week with my girlfriends family. It was a ton of fun!

**Week 5: 5/22/21**

Overall Status (on-schedule, behind, ahead): on-schedule

Number of hours worked this week: 5

Total number of hours worked on the project thus far: 25

Number of total hours anticipated at completion: 126

Accomplishments: Almost done with Requirements Specification, I’ve done a lot more research on possible avenues to host project

Challenges: N/A

Plans / Goals for next week: Finish Requirements Specification

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Another student gave a presentation on NLP! It was cool to learn more about it.

Other comments for the instructor: No comments!

**Week 6: 5/29/21**

Overall Status (on-schedule, behind, ahead): on-schedule

Number of hours worked this week: 8

Total number of hours worked on the project thus far: 33

Number of total hours anticipated at completion: 126

Accomplishments: I did some prototyping and a little more research and my initial plan of using TensorFlowJS was a little more complicated than I had anticipated. I decided to go the route of creating the entire application in Python and changed some of the requirements to match. Completed SRS.

Challenges: Se above

Plans / Goals for next week: Create Corpus of text and train model. Im planning on going a little over the anticipated 5 hours per week, but it should help me have a lighter load in the following weeks where I have a few planned trips/vacations.

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

I thought the AI in game development talk was really cool! The SSCAIT community looks really cool and I want to look into it more!

Other comments for the instructor:

**Week 6: 6/5/21**

Overall Status (on-schedule, behind, ahead): on-schedule

Number of hours worked this week: 12

Total number of hours worked on the project thus far: 45

Number of total hours anticipated at completion: 126

Accomplishments: SPED Talk, Began code to train model, started rewriting SRS with suggestions

Challenges: N/A

Plans / Goals for next week: Finish model training code, finish training corpus of text

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 8: 6/12/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 9: 6/19/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 10: 6/26/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 11: 7/3/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 12: 7/10/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor:

**Week 13: 7/17/21**

Overall Status (on-schedule, behind, ahead):

Number of hours worked this week:

Total number of hours worked on the project thus far:

Number of total hours anticipated at completion:

Accomplishments:

Challenges:

Plans / Goals for next week:

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week):

Other comments for the instructor: