**CAPSTONE PROJECT PLAN**

**GROUP 1**

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**PROJECT TIMELINE (13 WEEKS)**

Considering we are actually starting the project from the 3rd week of this semester, here is our project plan from week 3:

**Week 1: Introduction to NLP, NER, Spacy and JSON**

* Understanding concepts and a brief overview of NLP, NER, Spacy library, and the JSON file format
* Creating a new Conda environment for the project, Install and set up Spacy and its required libraries
* Introduction to the project and project requirements

**Week 2-3: Data Collection and Pre-processing**

* Collection of sample resumes: For the purpose of training, 220 resumes will be downloaded from an online jobs platform and manually annotated using online annotation tool on [Dataturks](https://docs.dataturks.com/).
* Pre-processing of resumes: Convert the sample resumes JSON data into the format required by the Spacy library

**Week 4-5: Resume Parser Model Development**

* Develop a resume parser using Spacy's NER model
* Train the model using sample resumes
* Evaluate the performance of the model

**Week 6-7: Model Deployment on GCP**

* Setting up a virtual environment on GCP
* Deploying the model on GCP using Google Cloud Functions or Google App Engine

**Week 8-9: Streamlit App Development**

* Introduction to Streamlit
* Develop a Streamlit app to interact with the deployed model
* Integrate the Streamlit app with the deployed model

**Week 10: User Testing and Feedback**

* Conduct user testing with sample resumes received from our faculty/professor
* Incorporate feedback from our faculty/professor to improve the performance of the model and Streamlit app

**Week 11-12: Final Deployment and Documentation**

* Finalize the Streamlit app and deployed model
* Prepare project documentation (code, project report, presentation, etc.)

**Week 13: Final review and wrap-up**

* Review the entire project and make any final adjustments
* Submit the project documents for grading

Note: This project plan is a rough outline and can be modified based on the specific requirements of our project. Additionally, each task can be further broken down into smaller subtasks and assigned to individual team members based on their skills and expertise.