

Spec Category	Spec Details
Project Task	<ul style="list-style-type: none"> ● Develop a convolutional neural network (CNN) or other classification model that achieves at least 85% recall when classifying glioma brain tumors.
Project Goal	<ul style="list-style-type: none"> ● Develop a classification model for classifying brain tumor image data. <ul style="list-style-type: none"> ○ Pre-process and prepare image data for analysis. ○ Research and evaluate different classification models, including CNNs, for project suitability. ○ Build models and perform model-building steps (i.e. data splitting, model training, hyperparameter tuning, model evaluation). ○ Draw conclusions from model results. ○ Interpret results in context.
Written Report	<ul style="list-style-type: none"> ● 1-2 page PDF detailing your project process and experience. <ul style="list-style-type: none"> ○ Process <ul style="list-style-type: none"> ■ Outline the steps you took in your analysis. ○ Results <ul style="list-style-type: none"> ■ Include your results and whether they met the project goal or not. ○ Challenges <ul style="list-style-type: none"> ■ Detail any challenges you faced, and how you overcame them. ○ Learnings

	<ul style="list-style-type: none"> ■ Describe anything you learned. ■ What will you apply to future work?
Code	<ul style="list-style-type: none"> ● All code used throughout each stage of the project. ● The code should be organized with each stage of the project having its own file (e.g. data pre-processing, analysis). ● You make a solid attempt to properly format the code (i.e. it is legible and does not run over any lines).
Documentation	<ul style="list-style-type: none"> ● The code contains easy-to-understand and relevant comments. ● The code contains easy-to-understand and relevant headers (*only applicable if using .ipynb files).
Project Task Achievement	<ul style="list-style-type: none"> ● You achieve the project task of building a classification model that classifies glioma tumors with at least 85% recall. <ul style="list-style-type: none"> ○ <i>OR...</i> ● You make a solid attempt at achieving the project task. <ul style="list-style-type: none"> ○ Code and overall process shows strong effort and thoughtful consideration toward achieving project task. ○ You explain in your report why you think you didn't accomplish the project task and what you'd do if you had more resources and/or time.