**Sanskar Gauchan**

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**About me**

Results-driven and passionate second year IT student at UTS, with experience in programming looking for an internship to apply skills in real world scenarios. Keen to learn new technologies, network with new people and apply my knowledge. Motivated and positive team player as well as an independent worker. Always looking for constructive criticism to enable personal and professional growth. Fast learner with a go-getter attitude who doesn’t stand back from challenges.

**Education**

**Bachelor of Science in IT (BSc IT)**

**University of Technology Sydney (UTS)**

**Estimated Graduation Date:** December 2022

**GPA:** 6.5

**Diploma of Information Technology**

**University of Technology Sydney College (UTS College)**

**Graduation Data:** March 2021

**GPA**: 5.8

**Projects**

**Brain Tumor Segmentation using U-net**

([https://github.com/Sanskar531/Brain-Tumor-Segmentation-using-Unet)](https://github.com/Sanskar531/Brain-Tumor-Segmentation-using-Unet)

* Used the U-net model to segment different brain tumor images using tumor masks as leverage for penalizing and training.
* Dealt with class imbalance present in the tumor masks and used different loss functions to find the best one.
* Trained the model efficiently up till 55 epochs with weighted cross entropy without overfitting it.
* Used dice coefficient, sensitivity, and specificity as the main metrics to evaluate the model.

**Country-Finder React app**

**(**[**https://sanskar531.github.io/Country-Finder/**](https://sanskar531.github.io/Country-Finder/)**)**

* Applied React JavaScript Framework as the Front-end to create a web-application which consumes JSON data from a public API called “restcountries.eu”.
* Used asynchronous code to fetch data from the given rest API.
* Utilized their RESTful API to extract data from their server and displayed it based on the user’s search query.
* Formulated a search function in order to find and search countries with the added feature of selecting a specific country to view their information.

**Multiclass Logistic Regression Model**

**(**[**https://github.com/Sanskar531/Matlab-ML-models**](https://github.com/Sanskar531/Matlab-ML-models)**)**

* Used gradient descent as an optimization algorithm to find parameters that yield the lowest cost/loss.
* Used Regularization in the cost function to mitigate the risks of overfitting.
* Using the concept of one vs all, created multiple logistic regressors and brought them all together in one multi-class regressor and used the prediction which had the highest confidence.

**Work Experience**

**Coles Team member**

2021 February – Present

* Lead 4 Night-fill team members towards finishing the overall task at hand by placing their skills at their best-performing areas.
* Learned how to operate in a team as a cohesive unit while also completing tasks independently.
* Learnt time management skills including but not limited to, finishing tasks within the allotted amount of time.
* Improved upon interpersonal skills by interacting with suppliers and customers.
* Demonstrated excellent work ethic to create a supportive and productive work environment.

**Technical Skills**

**Proficient in:** C++, C, JavaScript, Python, Data Structures and Algorithms, Git, GitHub

**Familiar with:** Machine learning, Image processing, Pattern recognition, Data pre-processing and cleaning, Interaction Design, Web-development, Visual Analytics, Tableau

**Additional Information**

Website: [Sanskar531.github.io/Resume](http://sanskar531.github.io/Resume)

LinkedIn:<https://www.linkedin.com/in/sanskar-gauchan-b976b81b8/>

GitHub:<https://github.com/Sanskar531>

**References**

Not included here due to privacy concerns. Please contact me to request information about my references.