Siddarth Dagar

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Projects

2020	▮	**e4 Chess Engine** An engine written in Google Colab using TensorFlow to simulate Robert James Fischer's play style.
	▮	**Sets and CS** Exploring the various visualizations of the Mandlebrot Set, Mandelbulb and other non self-similar fractals.
2019 – 2020	▮	**Personal Website** The editing, design and deploying of my personal website in JS, HTML and CSS hosted on Github Pages.
2018 – 2019	▮	**Project North Star** The building of an Augmented Reality headset and development (Unity) of applications on said headset.

Research Publications

Journal Articles

① **Dagar, S.**, Alizadeh, R., Wang, J., & Szeto, W. (2020). 2020 national high school big data challenge: New climate and information realities - from oceans to glass of water. *Stem Fellowship*, *5*, 1.
🔗 https://doi.org/10.17975/sfj-2020-001

Other Experience

2020	▮	**Learning Spatio-Temporal Features with 3D Residual Networks for Action Recognition.** Testing and reproducing paper's findings in UTMIST with PyTorch.
2017	▮	**Block chain Hashing Platform For Contracts.** Employing block chain in smart contracts for musicians, for THacks.

Education

2020 – 2024	▮	*Currently Working Towards* **Computer Science Specialist and Mathematics Major, University of Toronto** with a focus in A.I.
2014 – 2020	▮	**High School Diploma, University of Toronto Schools** UTS Diploma.

Skills

Languages	▮	Java, Python, C++, C♯, SQL, HTML, CSS, Vue.js,
Platforms	▮	Jupyter Notebook, Google Colab, Github, Unity3D, Overleaf, Azure, VS Code, XCode
Libraries	▮	TensorFlow 2.0, Keras API, PyTorch, Anaconda