Aparajithan Venkateswaran

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Education

University of Colorado Boulder **May 2020**
B.S. (Hons) Computer Science GPA: 4.000 (after Summer 2017)
B.S. (Hons) Applied Mathematics

Arsha Vidya Mandir, India **May 2015**
Central Board of Secondary Education 96.20 %
Senior School Certificate Examination (Nationwide High School Graduation Examination)

Experience

Research Assistant, University of Colorado Boulder **Sep 2017 - Present**

- Working in the AVS Lab on feature tracking in astronomical objects
- Developing machine learning algorithms to identify potential features on astronomical objects in deep space and use them as beacons for navigation

Director of Technology, HackCU **Sep 2016 - Present**

- Leading a small tech team at HackCU, a student run on campus hackathon group
- Tasks involve managing servers, designing websites, and developing software to manage hackathons

Projects

Faculty Course Questionnaire: Anomaly Detection System

- An anomaly detection model based on Bayesian Networks to detect 'anomalous' replies to Faculty Course Questionnaire at University of Colorado Boulder
- Implemented in Python

Artistic Style Transfer

- An implementation of *A Neural Algorithm of Artistic Style* in Python using TensorFlow
- Successfully extracted the *style* of an artwork and combined it with the *content* of another image

Ruins Escapade: A game in C++

- A game written from scratch in C++, incorporating sophisticated graphics, where the player controls the hero who is trying to escape a labyrinth

Skills

Languages	Experienced in C/C++, Python; Familiar with MATLAB, JavaScript
Tools and Frameworks	TensorFlow, Django, AngularJS, React, node.js
Misc.	MATLAB/GNU Octave, Git, Heroku, AWS, AutoCAD