United States Citizen

Vishal Singh Hundal

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EDUCATION

BS in Computer Science – Expected Graduation: Spring 2020

University of Maryland, College Park – *College of Computer, Mathematical and Natural Sciences*

Hinman CEOs Entrepreneurship Program – *A. James Clark School of Engineering*

President's Scholarship Recipient - *Given for academic, research and extracurricular excellence*

GPA: 3.56

EXPERIENCE

Capital One

College Park, MD | Software Engineering Intern | June 2019 – December 2019

- Prototyped, developed and trained a logistic regression model, using multiple different text vectorization methods, to classify whether URLs are benign or malicious.
- Utilized BERT to generate and autocomplete dataset descriptions, determine whether dataset and dataset column descriptions are valid, and cluster datasets based on their descriptions/metadata.

Tools & Technologies: *Python, Scikit-learn, spaCy, BERT, Tensorflow*

University of Maryland Institute for Advanced Computer Studies (UMIACS GAMMA)

College Park, MD | Research Intern | June 2019 – August 2019

- Developed a model for multi-agent autonomous movement in heterogeneous traffic, as commonly found in countries like India. Accounted for variable traffic, road hazards, and roadside interactions, which are common in developing nations.

Tools & Technologies: *Python*

University of Maryland Department of Computer Science

College Park, MD | Principal Researcher | August 2018 – December 2018

- Developed a reinforcement learning environment with the game Total War, a battle simulator, to allow for code automated gameplay.
- Implemented multiple reinforcement learning algorithms, like Q Learning and SARSA, to control the high-level strategy, given that this has a high significance on the outcome of the game.

Tools & Technologies: *Python, TensorFlow, SerpentAI*

University of Maryland A. James Clark School of Engineering

College Park, MD | Research Intern | May 2018 – August 2018

- Developed a linear regression model with stochastic gradient descent to determine the atomization energy of molecules given criteria like their molecular structures and formulae.
- Implemented, researched and tested multiple dimensionality reduction techniques given the linear regression task as hand.

Tools & Technologies: *MATLAB, Python*