

SHIVAM SWARNKAR

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Education

New York University, Tandon School of Engineering, – New York, NY

Bachelor of Science, 2018

GPA: 3.84

Major: Compute Science and Engineering

Minor in Business Studies (CAS & Stern)

Relevant courses: Algorithm Design and Analysis, Software Eng., Computer Architecture, Operating System, Artificial Intelligence, Machine Learning, Deep Learning, Neural Network Computing, Parallel Computing.

Technical Skills & Tools

- Python, C++/C, MATLAB, Java, Unity3D (C#), Arduino/Flora/BS2
- Machine Learning and Deep Learning (Familiar with Scikit-learn, Tensor Flow, Numpy, Matplotlib, Pandas)
- Parallel Computing (Familiar with MPI, OpenMP and CUDA)

Projects

Online Path Finding Algorithm, Spring 2017

A Team project to develop, design, implement and analyze two new path finding algorithms (in an unknown environment). Algorithms were tested with a MATLAB disk robot simulation

US-Election2016-Analysis, Fall 2017

A personal project to analyze county results of 2016 US Election with various demographic features like population density, age, education and etc. Linear Regression, fully connected neural network layers and subset regression were used to analyze and find patterns.

Improving End-to-End Learning for Negotiation Dialogues, Spring 2018

A team project to improve and expand the already existing methods of end-to-end learning for negotiation, with the implementation of MCT and integration of a fluency metric

GitSync, Spring 2018

A team project to build a sublime text plugin which makes Git more intuitive and easier to control. Plugin includes

Work History

Teaching Assistant

[Fall 2016, Fall 2015]

CSE Department at NYU – Brooklyn, NY

Taught procedural problem solving and programming with Python. Conducted Recitations, prepared exam questions, graded homework and held office hours for classes of more than 60 students.

Course Assistant

[Spring 2017]

CSE Department at NYU – Brooklyn, NY

Helped in designing coursework (exam questions, homework, mini project and in-class activities) for Intro to CS class of more than 120 students. Also held office hours and graded students' coursework.

Awards & Leadership Activities

- Dean's list candidate
- Received Tandon Scholarship worth \$27K per annum
- Student Union President
- Class President

[2014-Current]

[2014-2018]

[2011 & 2013]

[2003-2010]