SIDDHARTH VERMA

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EDUCATION

Netaji Subhas Institute of Technology (NSIT), University of Delhi, India

2015 - 2019

Bachelor of Engineering (Honors) in Computer Engineering

- GPA: 8.6/10
- Honors: First-class with Distinction, IEEE scholarship recipient

RESEARCH AND WORK EXPERIENCE

Expedia Group, Gurgaon, India

July 2019 - present

Software Engineer

• Developing scalable systems for performing financial transactions on the e-commerce platform

University of Pennsylvania, USA

December 2017 - June 2019

Research Assistant

Co-evolving genetic-programming (GP) trees with rules in Learning Classifier Systems (LCS)

- Developed Python code from scratch for evolving GP trees in LCS, a supervised ML algorithm
- Enhanced the performance of GP tree operations in terms of execution speed and tree representation
- Research article under review at EvoStar, 2020.

GP Trees - Python Library

• Created a python library for all the GP trees related operations that can be used directly for any GP application Supervisor: Dr. Ryan Urbanowicz, Assistant Professor, Perelman School of Medicine, University of Pennsylvania

Expedia Group, Gurgaon, India

June 2018 - July 2018

Software Engineer Intern

Stored Value Bank Adaptor

- Devised a framework to communicate with bank partners for making transactions using Enterprise Service Bus.
- Reduced time of on-boarding the adaptors from three months to three days.

Netaji Subhas Institute of Technology, India

January 2017 - May 2018

Research Assistant

Solving training issues in Generative Adversarial Networks (GANs)

• Research article under review at WACV, 2020.

Evolving game playing strategies using eXtended Classifier Systems (XCS)

Proposed an approach of playing game of Othello using XCS, a branch of LCS

PUBLICATION

S. Jain*, **S. Verma***, S. Kumar* and S. Aggarwal, "**An Evolutionary Learning Approach to Play Othello Using XCS**" 2018 IEEE Congress on Evolutionary Computation (CEC), Rio de Janeiro, Brazil, 2018, pp. 1-8. (WCCI 8-13 July, 2018) [*equal contribution] doi: 10.1109/CEC.2018.8477644

INTERNATIONAL CONFERENCE AND EXTRA CURRICULAR ACTIVITY

World Congress of Computational Intelligence (WCCI), Rio De Janeiro, Brazil Speaker

8-9 July, 2018

Presented research ideas on evolutionary algorithms and reinforcement learning at the conference.

Indian Institute of Science (IISc), Bengaluru, India

July 2017

Summer School

Participated in the lectures by research professionals on latest research in artificial intelligence.

RELEVANT SKILLS

Computer Languages: Java, Python, C++, Julia

Libraries and Tools: TensorFlow, DEAP, NumPy, Spring, LaTeX, Spring

Technical Skills: Data Structures, Algorithms, Deep Learning, Reinforcement Learning, Genetic Programming

Online courses: Deep learning specialization - deeplearning.ai, Reinforcement learning - Deep Mind