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SIDDHARTH VERMA

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EDUCATION

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

August 2015 - present

- Bachelor of Engineering (B.E) in Computer Engineering. Aggregate: 77.0%
- Relevant Coursework: Operating Systems, Database Management, Data Structures, Computer Architecture,
 Discrete Mathematics and Algorithms.

RESEARCH AND WORK EXPERIENCE

Software Engineering Intern

Expedia Group, Gurgaon, India

June 2018 - July 2018

Stored Value Bank Adaptor

- Devised a framework to communicate with bank partners for making reward point transactions using ESB.
- Replaced the method of coding the adaptor with a drag & drop UI for making transactions.
- Reduced time of on-boarding the adaptors from three months to three days.

Research Intern

University of Pennsylvania, USA (Remote)

December 2017 - present

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

- Developed Python code from scratch for imbedding GP-Trees in the ExSTraCS framework, a supervised LCS.
- Enhanced the performance of GP tree operations in terms of execution speed and tree representation.

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 of Informatics, Perelman School of Medicine, University of Pennsylvania

Research Assistant

Netaji Subhas Institute of Technology, India

January 2017 - May 2018

Solving training issues in Generative Adversarial Networks (GANs)

• Research article under submission at British Machine Vision Conference 2019.

Evolving game playing strategies using eXtended Classifier Systems (XCS)

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

Supervisor: Dr. Swati Aggarwal, Assistant Professor in Computer Engineering Department, NSIT

PUBLICATION

Speaker

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

Presented two research articles at the conference.

8-9 July, 2018

- Presented two research articles at the conference.
- Received an \$800 grant from IEEE being an undergraduate speaker and having a major contribution in the paper.

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

Summer School

Indian Institute of Science (IISc), Bengaluru, India

July 2017

• Participated in the lectures by the research professionals and industry experts on cutting-edge research work in artificial intelligence and key areas of computer science.

RELEVANT SKILLS

- Computer Languages: Java, Python, C++, Julia
- Computer Libraries and Tools: SciPy, scikit-learn, Pandas, DEAP, Numpy, Jupyter Notebook, Eclipse, LaTeX, Enterprise Service Bus (ESB), Mulesoft
- Technical Skills: Data Structures, Algorithms, Reinforcement Learning, Genetic Programming, Supervised Learning