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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 Networks, Discrete Mathematics and Algorithms, Artificial Intelligence, Expert systems, Theory of Automata.

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

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

Research Assistant

Pennsylvania

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

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

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

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.

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