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# SIDDHARTH VERMA
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## EDUCATION

**Netaji Subhas Institute of Technology (NSIT), University of Delhi, India**          **2015 - 2019**
- Bachelor of Engineering (B.E) in Computer Engineering. Aggregate: 78.2%
- Honors: First-class with Distinction, IEEE scholarship recipient

## RESEARCH AND WORK EXPERIENCE

**Associate Software Engineer**          **Expedia Group, Gurgaon, India**          **July 2019 - present**
- Developing solutions for performing financial transactions on the e-commerce platform

**Research Assistant**          **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, Perelman School of Medicine, University of Pennsylvania

**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.
- Reduced time of on-boarding the adaptors from three months to three days.

**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 a conference.

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

**Summer School**          **Indian Institute of Science (IISc), Bengaluru, India**          **July 2017**
- 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,
- **Technical Skills**: Data Structures, Algorithms, Deep Learning, Reinforcement Learning, Genetic Programming