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| Jon Snow | |  | Email : [ashaywalke@iitkgp.ac.in](mailto:ashaywalke@iitkgp.ac.in) |  |
| [http://ashaywalke.github.io](http://ashaywalke.github.io/) | | Mobile : +91 9933995693 44 West 22nd Street, New York, NY 12345 | |  |
| Education | |  |  |  |
|  |  | |  |  |
|  | Indian Institute of Technology, Kharagpur | | Kharagpur, India |  |
| 5 year Integrated Masters in Mathematics and Computing; GPA: 6.41 | | July. 2014 { present |  |
|  | Dharampeth Science College |  | Nagpur, India |  |
| Higher Secondary School Certi cate; 87.9% |  | 2014 |  |
|  | Montfort Higher Secondary School Ballarpur | | Ballarpur, India |  |
| All India Senior School Certi cate Examination; GPA 10.0 | | 2012 |  |
| Experience | |  |  |  |
|  |  |  |  |  |
|  | University of Science, Malaysia |  | Penang, Malaysia |  |
| Undergraduate Researcher |  | May 2017 - June 2017 |  |

Moufang Loops: Simpli ed the proof of equivalence of Moufang Identities by extensively applying the concepts of Modern Algebra and Permutation the known proof was cumbersome and required the knowledge of autotopism

Application of programming in Abstract Algebra: Used SACK in Python, a command-line program for doing elementary computations on small nite groups and printing their cayley tables

Nonassociativitite loops : Proved that there is no non-associative loop having order less than 5 with the help of SACK :- Simple Abstract Algebra Calculator in Python

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|  | Mathminers | Mumbai, India |  |
| Remote Data Science Intern | Dec 2016 |  |

Drone and Quad-copter Analysis: Extensively involved the use of the openCV library in python for detecting, locating and nding the optimum path for reaching the targets

Contour Properties: Leveraged the use of contour properties of di erent shapes which helped in saving the training of complicated machine learning models

Video Enhancement Techniques : Applied the video enhancement techniques to highlight the details which are obscured involving changing brightness and color contrast

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|  | Hackerearth | Bangalore, India |  |
| Market Analysis Intern | May 2016 - July 2016 |  |

SanFrancisco Slash Hack: Prepared status reports and proposed new business strategies for /hack which witnessed over 900 developers and keynote speakers

Relationship Management: Boosted the number of Out bond calls by helping the manager to identify active partners partners with good business potential

Programming Skills

Languages: Python, C, C++, Java

Libraries: OpenCV, Scikit-learn, Matplotlib, Numpy, Scipy

Database: MySQL

Softwares: Microsoft O ce, Adobe Suite, MATLAB, GIT

Coursework Information

Computer Science: Programming and Data Structures, Systems Programming, Design and Analysis of Algorithms, Object Oriented Systems Design, Switching and Finite Automata, Theory of Compiler Design,

Mathematics: Linear Algebra, Modern Algebra, Operations Research, Probability and Statistics, Measure Theory, Real Analysis, Functional Analysis, Mathematical Methods

Projects

Movie Recommendation Engine: Developed a movie recommendation engine in Python using popular collaborative ltering techniques Primarily based on the research done on Single Value Decomposition method during the Net x Prize competition Implemented and tested other machine learning techniques like Baseline predictor and k-Nearest Neighbor Model

Information Extraction from news articles: Statistically Analyzed Sentences from the knowledge base and identi ed the relation being described using keywords and Assigned con dence scores to country number pairs using Gaussian distribution