

Shivam Sharma

Roll No: MT17147, Email: shivam17147@iiitd.ac.in

Skype ID: shiva.iuac@gmail.com

DOB: Jan 23, 1995

Address: Arihant Arden, Flat 1504 Block E, Bisrakh, Greater Noida, UP

Education

Indraprastha Institute Of Information Technology, Delhi

M.Tech(Computational Biology) 8.95

2017-Present

Cluster Innovation Centre, University Of Delhi Percentage:

B.Tech Information Technology (with mathematical Innovation) 77.79

2012 - 2016

Kendriya Vidyalaya, Delhi Percentage: 81.6

Senior Secondary, CBSE

2012

Kendriya Vidyalaya, Delhi CGPA:

Secondary, CBSE 2010

Skills

Expertise Area Machine Learning, Statistical computation, Health care data analysis,

Data Science, Parallel Computation in C.

Programming

Language

Database

C/C++, Python, R, Java

Tools and

Technologies

MySQL, MongoDB

MATLAB, R,

Thesis Project

Thesis: In silicon prediction of Bacteria and Antibiotic

(June, 18 - ongoing)

CGPA:

susceptibility using hospital data for UTI
Guide: Dr Debarka Sengupta (Faculty IIITD)

Project: The research aims to provide direction to clinicians as to whether a particular episode of infection is likely to respond to a given antibiotic. Utilizing in-silico methods for research to predict drug sensitivity and chronic disease outbreak can help hospitals manage unbearable burden on the health and economic status of a patient.

Internship/Work Experience

Circle Of Life, Delhi

(June, 18 - ongoing)

Position: Data Scientist Intern

Project: Healthcare facilities in India are currently overburdened since they have to cater to massive population of the country. This is accentuated by the shortage of resources. Machine learning and data science has the potential to improve this current state of affairs. Hence, this study aims to utilize machine learning models and data science to improve the health status of patients through the following use cases.

Indian Statistical Institute, Delhi (Research)

(June,16 –July,17)

Team Size:2

Guide: Prof. Shanta Leishram **Position:** Former Project Fellow

Project : 'DRDO CARS project: Implementation of Attacks on Elliptic curve discrete log problem'. Implemented both non-generic attacks like Pholig Hellman to solve ECDLP over 40-bit finite field and generic like Parallelized Pollard's Rho attack to solve ECDLP over a 64-bit finite field using Distinguished point property.

DRDO DTRL Labs Delhi (Research)

(Jun, 14 – Jun, 16)

Guide: Dr A K Sinha(Scientist 'G')

Team Size:5

The work deals with a Cognition-based modelling to analyse scenarios of Habitat Selection, Dilemma Resolution and Deception. Designed a cognitive agent for battlefield navigation and for taking an optimal cognitive decision in battle-field implemented in Unreal Engine and MATLAB.

Pixvera: Know the truth behind the pixels

(Jun,14 -Jun 15)

(Developer)

Team Size:2

Worked on developing an algorithm for calculating similarities in trademarks to prevent Copyright infringement of official symbols used by companies. The images are fetched by a crawler, from the web, developed in python.

Design Innovation Center, Delhi University(Industrial Project)

(Jun,13 -Jun,15)

Guide: Dr A K Sinha(Scientist 'G')

Team Size:5

Project: 'Technology Development Program' (IT Maha Abiyan) under Design Innovation centre (DU, India), IamSMEofIndia (Union of Mini Scale Industries, Faridabad) And PHD Chamber of Commerce to provide technical support to mini-scale industries to plan and organize their company employees and customer data online.

Inter-University Accelerator Centre (IUAC)

(Jun, 13 - Aug, 13)

Studied the functioning of EXPeyes Junior(a product of IUAC). ExpEYES is from the PHOENIX project of Inter-University Accelerator Centre, New Delhi.

Projects

Skin image classification as diseased using image processing and Neural Net

Guide: Prof. Debarka Sengupta (IIITD)

We classified skin images as diseased or non-diseased for Dermatological disease detection using features extraction from

accreted disease portion.

Improvement in prediction of Plant Encoded Viral RNA suppressor protein using SVM and AdaBoost

Guide: Prof. GPS Raghava (Faculty IIITD)

Prediction of Plant encoded viral RNA as suppressor protein using the

Plant protein dataset.

Dexter ER2 Robotic Hand(Robotics)

Guide: Prof. Harendra Pal (Faculty DU)

Development of APIs for Controlling a five arm robot Dexter ER2. Modelling motion profile strings. Drawing of simple output primitives like a circle and straight lines using APIs developed in C sharp.

Delhi University Innovation Project

Guide: Prof. Pankaj Tyagi(Physics Faculty, DU)

Project: Design of Innovative IT based Modules for teaching Science

and Mathematics to School and College Students.

AKS implementation(Cryptography)

Guide: Prof. Shobha Rai (CS Faculty, DU)

Studied the decrease in time complexity with parallel implementation of AKS Algorithm in MATLAB. AKS is an efficient Polynomial-Time

Primality Testing algorithm.

Positions of Responsibility

Research Fellow at Indian Statistical Institute, Delhi

Paralegal Volunteer for Delhi State Legal Service Authority

Awards and Achievements

 Coursera Certification in Developing Innovation Ideas for New Companies: The First step in Entrepreneurship

https://www.coursera.org/account/accomplishments/certificate/PDNXKARUG9

 Winner Of National Cyber Olympiad and International Informatics Olympiad organized by Computer Literacy Foundation, 2006

(Nov, 2017) Team Size: 2

(Nov 2017)

Team: Individual

(2016)Team: Individual

(2015)

Team Size-5

(2014)

Team: Individual

(June, 16 - June, 17)

(June 2015)

Interests and Hobbies

- Reading Books(Fiction)
- Playing football

Declaration: The above information is correct to the best of my knowledge.

Shivam Sharma

Date: June 16th, 2018

Github: For further project Details you can view my GitHub Repo