

# Shiv Kumar

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## EDUCATION

### NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

B.E. INFORMATION TECHNOLOGY  
New Delhi | Expected Aug 2020 |  
CGPA: 8.14/10.0

## SKILLS

### LANGUAGES AND FRAMEWORKS

C • C++ • Python • Java • HTML •  
CSS • Bootstrap • Javascript •  
jQuery • NodeJS • Express • Scikit  
Learn • Tensorflow • Keras • ROS •  
NLTK •  $\LaTeX$  • OpenCV

### MACHINE LEARNING

• Regression • Support Vector  
Machines • Naive Bayes • K Nearest  
Neighbours • Decision Trees • Deep  
Learning • Natural Language  
Processing

### MISCELLANEOUS

• Shell Scripting • UI/UX Design and  
Graphic Designing • Kinetic  
Typography • Video Editing

## AWARDS

- Participated in 12 Model United Nations Conferences; Won awards in 9 of them.
- Awarded the pyTorch challenger scholarship by Facebook and Udacity.
- Awarded the school scholar achievement award for continuous academic excellence for 5 years.

## PUBLICATION

**DNA based storage: Introduction, Characteristics Applications and Challenges**, accepted for publication in the Annals of Computer Science and Information Systems (2300-5963), Poland.

[\[DOCUMENT\]](#)

**Authors:** D.K.Sharma, S. Kumar, A.Kumar

## MOOCS & COURSES

• NAND2Tetris • Convolutional Neural Networks • Sequence Models • Data structures in C++

## EXPERIENCE

### RESEARCH AND DEVELOPMENT INTERN | LABORATORY FOR COMPUTATIONAL SOCIAL SYSTEMS, I.I.I.T., NEW DELHI October'18- | New Delhi

- Part of a team conducting research on collusive social networks.
- Working on anonymizing data to produce data sets for other researchers to use during their research.

## PROJECTS UNDERTAKEN

### COMPARATIVE ANALYSIS AND STUDY OF DIFFERENT SUPERVISED LEARNING ALGORITHMS. [\[HERE\]](#)

June'18-August'18 | Independent Study | Netaji Subhas Institute of Technology

- Implementation and analysis of conventional regression and classification methods such as multi-variable Linear Regression, Logistic Regression, Naive Bayes and KNN using basic principles.
- Analysis and implementation of multi layered neural networks (ANN, CNN, Resnets) for classification problems using Numpy, Tensorflow and Keras.
- Understood the working of other popular algorithms such as Decision Trees, Random Forests, Support Vector Machines along with their implementation in Scikit Learn library.

### MAGICAL COMMANDS FOR BASH (MCB) [\[HERE\]](#)

September'18 - | Independent Study | Netaji Subhas Institute of Technology

- Started an open source project to bring together Harry Potter fans on Github to replace bash commands with harry potter spells with regular improvements and maintenance.
- Guided beginners in open source to make their first contributions by making beginner friendly entry points.

## POSITIONS OF RESPONSIBILITY

### SOFTWARE DEVELOPMENT LEAD | AUTOMATED ROVER AND EMBEDDED SYSTEMS ROBOTICS, N.S.I.T.

September'18 - | New Delhi

- Currently leading a team of 10 developers to design and implement the software systems for an autonomous rover to participate in a 4 phase University Rover Challenge.
- Ongoing research and experiments for path planning, object detection and feature detection using OpenCV, ROS and different SLAM algorithms.

### HEAD OF OPERATIONS | DELEGATE | DELEGATION TO HARVARD NATIONAL MODEL UNITED NATIONS, BOSTON, M.A.

Oct 2016 – March 2017 | New Delhi

- Member of award winning delegation at the prestigious 4-day conference which saw participation of over 3000 students from 70+ countries.
- Oversaw logistics, operations and documentation of the entire delegation, interacting with different stakeholders in the process.

### SENIOR EXECUTIVE MEMBER AND DESIGN HEAD | FINANCE AND ECONOMICS SOCIETY AND CONSILIUM'18, N.S.I.T.

March'17 - September'18 | New Delhi

- Conducted weekly sessions and presentations entailing research into topics like FinTech and its growing prominence, cryptocurrency, etc. which saw 50+ regular attendees.
- Organized session with Balaji Vishwanathan as speaker on the topic "Changing Dynamics of Indian Business World (with special reference to technology)"; saw 200+ attendees.
- Boosted online reach of the annual business conclave by 150% in terms of views to event posters and videos, leading a team of 20+ members in the design team.