

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 • Golang •
HTML • CSS • Bootstrap •
Javascript • jQuery • NodeJS •
Express • Scikit Learn • Tensorflow •
Keras • ROS • NLTK • \LaTeX •
OpenCV • Flask

MACHINE LEARNING

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

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-Present| New Delhi

- Part of a team conducting research on collusive social networks.
- Worked on determining candidate collusive groups on online reviews and ranking them to achieve state of the art results.
- Implemented multiple baselines and scraped data to prepare datasets used in the research.

UNDERGRADUATE RESEARCHER | CENTER FOR ADVANCED INFORMATION TECHNOLOGY FIELD STUDIES, N.S.U.T., NEW DELHI September'18-Present| New Delhi

- Worked on projects relating to opportunistic networks
- Also worked on wireless energy transfer incentive based routing

PROJECTS UNDERTAKEN

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

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

- Implemented and compared conventional regression and classification methods such as multi-variable Linear Regression, Logistic Regression, Naive Bayes and KNN using basic principles based on different applications.
- Implemented and compared of multi layered neural networks (ANN, CNN, Resnets, RNNs) using Numpy, Tensorflow and Keras for problems relating to complex boundaries, images and temporal data.

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.

TIME TABLE INTEGRATOR (TTI) [\[HERE\]](#)

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

- An open source project meant to facilitate the process of integrating college time table into user's schedule. Extracts the time table into .csv and excel format from pdf format.
- Used by multiple students around university to save time integrating time tables into their schedules.

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 which involves working on ROS, OpenCV; implementing different SLAM based 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.