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FDUCATION

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

B.E. Information Technology New Delhi | Expected Aug 2020 | CGPA: 8.27/10.0

SKILLS

LANGUAGES AND FRAMEWORKS

C • C++ • Python • Java • Golang • HTML • CSS • Bootstrap • Javascript • jQuery • NodeJS • Express • Scikit Learn • Tensorflow • Keras • ROS • NLTK • ŁTĘX• OpenCV • Flask • Shell Scripting

MACHINE LEARNING[HERE]

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

REINFORCEMENT LEARN-ING[HERE]

• Monte Carlo Methods • Temporal Difference Methods • Deep Q Network

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

• Reinforcement Learning • Deep Learning • NAND2Tetris • 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

SOFTWARE DEVELOPMENT LEAD AUTOMATED ROVER AND EMBEDDED SYSTEMS ROBOTICS, N.S.U.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.

PROJECTS UNDERTAKEN

BEACON [HERE]

March'19 - | Independent Study | Netaji Subhas Institute of Technology

- Implemented sarsa max based temporal difference algorithm to train a Reinforcement Learning agent to find an optimum path to pick and drop passengers.
- Was able to score more than 9.1 best average score over 100 consecutive episodes, that is more than the limit set according to openal gym.

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.

SABER [HERE]

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

- A project meant to facilitate the process of integrating college time table into user's schedule while also reporting clashes in different time slots due to different electives facilitating elective selection.
- Used by multiple students around university, saving hours of productive time.

POSITIONS OF RESPONSIBILITY

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.