R HARI SHANKAR

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	8.429
2019	CBSE	DPS Vasant Kunj	96.8
2017	CBSE	DPS Gurgaon	10

SCHOLASTIC ACHIEVEMENTS

• **Kishore Vaigyanik Protsahan Yojana (KVPY), 2018 :** All India Rank 2. Awarded by the Department of Science and Technology, Government of India.

• **Dhirubhai Ambani Scholarship Award 2019:** Awarded for exceptional performance in Class XII board exam.

PROJECTS

• **MIPS Simulator (Prof P.R. Panda)** (February,2021 - Present) : Created a MIPS simulator to run assembly language code using CPP . It uses DRAM implementation for higher efficiency .

• **Handwriting Recognition and Curve Fitting (Prof S.Srirangarajan)** (March,2021) : Used logistic regression to create a multi-class classifier to predict the handwritten digit .For polynomial curve fitting logistic regression using gradient descent making use of momentum modification to improve the learning rate .

• **Traffic Density Estimation (Prof Rijurekha Sen)** (February, 2021 - Present) : Used OpenCV to change the perspective of the image by changing the camera angle and cropping the required portion for estimation. Then performed queue and dynamic density algorithms to analyze the traffic flow . For improving performance multithreading was also implemented. A Final analysis report was also prepared for interpreting performance in the different methods.

• **File Format Conversion (Prof S Arun Kumar)** (February, 2021) : Created a program in SML to convert one file format to another by changing delimiter and newline parameters.

• **Graph Theory and social connect (Prof Rahul Garg)** (December,2020 - January, 2021) : Used weighted graphs to connection between characters in the marvel universe with character maps to movies and ran DFS and sorting.

• **Dynamic Memory allocation using linked list and trees (Prof Rahul Garg)** (October, 2020 - November, 2020) : Used Doubly Linked List, Binary Search Trees and AVL Trees to create a system to perform Dynamic Memory Allocation.

• **Stock Market prediction using LSTM model** (June, 2020) : Predicted Stock Prices with <2% error using LSTM model .

• **Drowsiness-Detection for Self Driving Automobile:** (May, 2020 - June, 2020) : Using computer vision techniques to detect facial landmarks and eye aspect ratio.

• **Tele-Teaching Solution using ML and NLP (Prof Brejesh Lall)** (May, 2020 - August, 2020) : Reduce the data consumption of users and provide learning opportunities to students living rural areas having low data .Using ML and NLP to enrich the subtitle content and to provide notes and formulas after every lecture.

INTERNSHIPS

• **INSPIRE Internship** (December 2017) : Internship program sponsored and managed by the Department of Science & Technology .

- Awarded most original and innovative idea .

• **ACADMAZE, IIT Delhi** (May 2020 - July 2020) : Digital Marketing and content creation (operations).

TECHNICAL SKILLS

• **Programming Languages** : C, C++, Python, Java, HTML, CSS, Javascript, SQL, SML, VHDL, MIPS.

• **Softwares and Frameworks** : OpenCV , Octave , Netbeans ,Turbo C++, Tensorflow , Autodesk, Keras , Selenium , Follium , Latex.

EXTRA CURRICULAR ACTIVITIES

• **Model United Nations:**

- THSMUN 2016: Best Delegate in AIPPM committee
- Utopia MUN 2016: High Commendation in AIPPM committee
- SHIS MUN 2016: Special Mention in Cabinet Committee
- Indian Parliamentary Colloquium 2017 (NSIT MUN): Verbal Mention in AIPPM committee

• **SheCodes: (January,2020 - March,2020)** Member of the SheCodes volunteering team under NSS (National Service Scheme) .SheCodes is a organization aiming to help women to learn coding to access a new career in technology.

POSITIONS OF RESPONSIBILITY

• **ISC Representative, Shivalik Hostel** (September, 2020 - Present)

• **Executive, Economics Club** (September,2020 - Present) : Creative and Design Executive : I was responsible for creating the clubs webpage and handing the various competition posted on the webpage .

• **Executive, ACES-ACM** (September, 2020 - Present) : Responsible for conducting events in our technical fest .(TRYST)

• **Executive, Physics and Astronomy Club** (September, 2020 - Present) : Web Development

COURSES DONE

Machine Intelligence and Learning, Computer Architecture, Design Practices, Signal and systems, Linear Algebra & Diffe. Equa., Intro. To Electrical Engg., Calculus, Intro. To Computer Science, Probability & Stochastic Pro., Microeconomics, Principles Of Elect. Materials, Data Structures And Algorithms, Digital Logic & System Design, Discrete Mathematical Structur, Introduction To Comp.sc. & Eng

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