

ACADEMIC QUALIFICATIONS %/CGPA **Degree/Examination** Board/University/School Year 2019-M.Tech Computer Science & Engineering Indian Institute of Technology Jammu 8 Present 2014-2018 **B.E in Computer Engineering** Gujarat Technological University (VGEC) 8.06 2014 CBSE (Kendriya Vidyalya) Class XII 93.4 % 2012 Class X CBSE (Kendriya Vidyalya) 9.8 **ACADEMIC DISTINCTIONS & CURRICULAR ACHIEVEMENTS** Project selected for the Ministry of Steel, Government of India under Smart India Hackathon. Scholastic Achieved Certificate of Outstanding Project Presentation at 20th and 19th National Children Achievements Science Congress for 2 years. Recipient of IAFBA Scholarship (Undergrad). Obtained 3rd Position for Science Project at Jawaharlal Nehru Regional Science Exhibition. Other Obtained 1st Rank in School & 15th in City in 7th International Mathematics Olympiad. Achievements Languages: C, C++, Java, Matlab/Octave, Python MySQL Workbench, Shell, LaTex, UML, Git Flow Skills Tools : Linux, Windows, GitHub, AWS and Azure Technologies Platforms : **COURSES & INTERNSHIP** Course : Neural Networks and Deep Learning in Python. **Neural Networks** Organisation: deeplearning.ai . Coursera (Online) Project : Real time traffic classification using Machine Learning over Network. Research Organisation : Indian Institute of Technology Bombay. Internship **Course :** Diploma in Java (Boot camp) D-Java BootCamp \geq **Organisation :** C-DAC Ahmedabad **PROJECTS & PUBLICATIONS** Objective : Classifying AI synthesised vs Human voice by Cepstral and Spectral Statistics using Machine Learning. (Submitted paper to IEEE WIFS Conference as First Author) Human vs Al Extracted audio features by computing higher order correlations, Bi-coherence & Fourier Voice analysis, and generated a structured data set. Classification Train machine learning model using various algorithms like Quadratic & Linear SVM, KNN, etc Language & Tools : MATLAB, Machine Learning. MATLAB Classifier and Plotting Apps. Objective: Real time traffic classification for type of network data packets using Machine Learning. **Real Time** Accumulated data packets over the network using Wireshark tool and created labelled data Network Packet set for classification. Train the ML model using data set. Classify packets whether TCP or UDP on real time by collecting packets using python script. Detection Language & Tools : Python, Machine Learning, MATLAB, Wireshark. Objective: Generating Virtual 3D Environment for Physical World and reminding task associated with real objects. Finder & Developed a Unity Application for Virtual simulation of places scripted using C#. **Reminder Virtual** Build a WebGL App for the same and deployed as web application on Microsoft Azure Cloud. Simulation Language & Tools : C#, Unity 3D, WebGL, Microsoft Azure, Visual Studio. Objective: Scanning of hard copies of good's train wagon receipt, identifying text via OCR image text recognition library. **Image Text** Designed a web application that stores images of wagon receipt on SQL database over Amazon cloud using AWS RDS. Connected using MySQL Workbench for DBMS managing. Identification Retrieved text from image obtained from database, using OCR in java application and storing using OCR back clean only text to MySQL database on AWS Cloud. Language & Tools: Java (Jframe), JSP, MySQL, MySQL Workbench, AWS RDS (EC2).

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Arun Kumar	Singh (2019PCS0017) संस्थान जम्मू INDIAN INSTITUTE OF TECHNOLOGY JAMMU
Other Projects (Check out my other projects on my GitHub Profile)	 Digitalising the offline Tatkal Train Reservation System : Created a paperless system by setting up Kiosk at railway stations running stand-alone Java Application Independent of Operating System. Hosted upon Java Virtual Machine that can be installed over Kiosk. Data stored and fetched by MySQL Database on AWS RDS. Digit Recognition Using Neural Net : Handwritten digit images are collected and converted into Grey scale images. Image of 200x200 pixels converted into a feature vector of size 40000 pixel values and fed into a neural net. Sigmoid and ReLU function used in forward propagation. Implemented back propagation. Completed in Octave Platform. Data File conversion, Web Crawlers, House Price Prediction using Linear Regression, Student Admission Prediction using Logistic Regression and other interesting projects done by me, can be found on my Github Repositories. Github Profile : https://github.com/arun-kmr-singh
POSITIONS OF RESPONSIBILITY	
Teaching Assistant	 Worked as a teaching assistant for Python Programming subject at IIT Jammu. Worked as a teaching assistant for Web Technology subject at DA-IICT.
Event Manger Techfest at GTU	 Organised an online National Level Coding event under the GTU Central Tech Festival. Organised a non-technical event of Logical Problem Solving and Rubik's Cube.
Committee	 Headed the responsibility of disciplinary committee and mess committee of the Hostel in UG.
School House Captain	 Headed the responsibility of School House Captain for Green House. Successfully organised the Inter House Sports Meet and School Annual Function.
EXTRA CURRICULAR ACHIEVEMENTS	
Academics & Sports	 Successfully Cleared Crio's OOPs challenge. Cleared 2 coding rounds of Infosys HackWithInfinity & TCS Codevita. Completed TCS software quality Assurance challenge. Part of Coding Club at IIT Jammu. Student Member of IEEE Computer Society. Secured 2nd rank in IEEE Coding challenge at IIT Jammu. Successfully trekked 55 KMs of Himalayan and Attained the Height of 13800 fts. Part of Institute football team. Won Gold Medal in inter institute football cup during Graduation 2 times.
Programming Profiles	 CodeChef : <u>https://www.codechef.com/users/arun_kmr_singh</u> GeeksforGeeks : <u>https://auth.geeksforgeeks.org/user/arunkumarsingh/practice</u>
Communication and Management	 Computer Hardware and Network Manager at School Computer Labs. Part of School Debate Team. Winner at Regional Debate Competition. Represented and won Regional Skit Competition. Anchoring at School Annual Function.
Social Services	 Creating awareness and assistance in raising funds for the care of elderly. Creating awareness and rendering services to solace the sufferings of cancer patients. Being active Scout at Bharat Scouts and Guides.

भारतीय प्रौद्योगिकी संस्थान जम्मू