Akshit Soni

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EDUCATION

- **Dhirubhai Ambani Institute of Information and Communication Technology** Gandhinagar, India
  B.Tech - *Information and Communication Technology CGPA: 8.25* *2015 – Present*
- **Noble International School** Bhilwara, India
  Intermediate/+2 - *Central Board of Secondary Education (CBSE) Percentage: 93%* *2013 – 2015*

EXPERIENCE

- **Microsoft** Hyderabad, India
  Software Development Intern *May 2018 - July 2018*
  - **Edge Browser (Saga East R&D India team)**: Worked to enhance the Web Notes feature in Edge to retain fidelity and interactivity of web content. Designed and developed feature using agile methodology. Worked using C++ as primary programming language.

- **Indian Institute of Technology, Bombay** Mumbai, India
  Software Development Intern *May 2017 - July 2017*
  - **Physics Interactive Animation Creator**: Worked with a team of 7 interns to develop animation framework. This framework enables to create 3D animation in Three.Js by using drag and drop interface. This reduced significant amount of time and effort that was required to create the animation.

- **DA-IICT** Gandhinagar, India
  Teaching Assistant *Aug 2018 - Present*
  - **Calculus**: Teaching Assistant for the course 'Calculus' for first year students. Conduct sessions twice a week for students under academic probation. The work includes teaching important concepts, solving doubts and conducting quizzes in order to help them improve their grades.

PROJECTS

- **Parallelization of Dijkstra algorithm**: Parallelized Dijkstra algorithm to run on GPU. Designed and implemented parallelized algorithm in CUDA C.
- **Recommendation System**: Developed a collaborative recommender system that recommends university elective courses to the students based on their grades obtained in core courses.
- **Artificial intelligent agent for Tic-Tac-Toe**: Implemented MiniMax, MiniMax with Alpha Beta pruning and Monte Carlo tree search algorithm for artificial intelligent agent to play NxN Tic-Tac-Toe with an interactive UI to play the game.
- **Plant disease classification**: Applied Convolution Neural Network (CNN) on Plant Village data set to classify image of plant's leaf into one of 38 classes of disease.
- **Collaborative real time whiteboard**: Created a collaborative real time whiteboard app for teaching and sharing ideas. Built with PubNub, AngularJS and MaterializeCSS.

PROGRAMMING SKILLS

- **Languages**: C/C++, Javascript, Python, SQL **Others**: Visual Studio, Git, HTML, CSS, ThreeJs

POSITION OF RESPONSIBILITIES

- Captain, DA-IICT basketball team
- Execomm Member of IEEE Industry Applications Society Student Branch, DA-IICT
- Co-ordinator of Concours, annual sports fest of DA-IICT

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Database Management System
- Operating Systems
- Computer Networks
- System Software
- Probability and Statistics
- Software Engineering
- Graph Theory
- Discrete Mathematics
- Algebraic Structures
- Introduction to Machine Learning (NPTEL)