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**EDUCATION**

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- **Shiv Nadar University** New Delhi, India  
*Bachelors in Computer Science and Engineering (Senior Year); GPA: 7.35* *Aug 2017 – May 2021*
- **Delhi Public School, Rohini** New Delhi, India  
*Class 12, CBSE Board; Percentage: 93.5%* *May 2017*

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**EXPERIENCE**

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- **Dell EMC** *May 2020 - Aug 2020*  
*Software Development Intern*
  - **A11Y CI/CD Dashboard:** Used open source tool Axe-Core to generate Accessibility Reports for different product URLs scanned. Full stack development for 3 dashboards to monitor accessibility details and reports of products across different divisions. Introduced a Scoring System for easy readability of reports for the management. Addition of admin page to monitor various teams complying with the solution.
  - **Business Impact:** Developed solution will make the division 70% WCAG 2.1 Level AA compliant, with future plans to expand to other organizations within Dell.
- **Defence Research and Development Organisation (DRDO)** *May 2019 - Jul 2019*  
*Machine Learning Research and Development Intern (LASTEC Lab)*
  - **Emotion Recognition from EEG Signals:** Developed Emotion Recognition models using Machine Learning on EEG Signals using the DEAP dataset, to achieve an accuracy of 83.4%. Researched and developed various signal transforming algorithms like DWT for feature extraction, optimizing machine learning models and train them.
- **HackData** *Sep 2018 - Mar 2019*  
*Organizer and Curator*
  - **Role:** Lead Organizer of Hackdata, Shiv Nadar University's annual Hackathon, which had participation from over 31 universities and a total of 60 teams.
  - **Responsibilities:** Responsible for curating teams, mentors and judges and ensuring smooth functioning of the event, co-ordination between the university administration and the organizing committee and the overall marketing of the event

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**PROJECTS**

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- **Enhanced Product Recommendation Engine:** Best solution proposition and implementation for Dell Hack2Hire - hackathon conducted by Dell with over 30 participating teams. Best overall solution with feasible business application and increased revenue generation. Designed for users' browsing habits across various IT domains to recommend customer specific products with minimal information retrieval. Used web scraping and feature optimization along with development of ML models to increase accuracy. Consolidated the above with Flask and basic front end development.
- **Tourism Management Appliation:** This project was created in Java and mySQL and involves extensive GUI designing and databases and writing queries. It is a tourism application developed as a project for the Introduction to Databases course in our university. It involves has both user and administrator interfaces, to interact with data and bring out the optimal tourist experience for any city in the Indian Subcontinent.
- **Intelligent Games: Soduko and Tic-Tac-Toe:** Developed AI logic-based games with GUI using a magic square based game playing strategy and backtracking algorithms for a computer vs user gameplay.
- **CPU Scheduler:** Designed a CPU Scheduler using Java to display different scheduling policies for various input processes. Implemented FCFS, Preemptive SJF, Non-Preemptive SJF, Preemptive Priority, Non-Preemptive Priority and Round Robin amongst various scheduling policies and algorithms.
- **Text Editor:** Designed and implemented a full fledged text editor using Java. Included all basic features like inserting shapes and resizing them, selective text resizing, saving, opening, find and replace, and basic text editing.
- **Active Networks as Computer Architecture:** A Research oriented project exploring active networks and different ways how we can use them as a computer architecture for better and efficient computational models.

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**TECHNICAL STRENGTHS**

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- **Languages:** Java, Python, C#, C, C++, R, SQL, Matlab, HTML
- **Technologies:** CSS, .NET Core, Razor Pages, Github, Gitlab, Latex, Numpy, Pandas, SciKit, Flask