

## EXPERIENCE

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**Summer Intern**                                      **LeanKloud Solutions Pvt Ltd**                                      **April 2020 – June 2020**

- Designed and implemented sanity checks for new Amazon AWS and MS Azure customers
- Automated sanity checks and metric collection using Boto3 and AWS Lambda
- Automated reporting of Lambda results using Jira python API

**Winter Intern**                                      **Admatic Solutions**                                      **October 2019 – December 2019**

- Created a gesture recognition ball using GRT and ESP32
- Designed computer vision applications for teaching aids
- Implemented OpenAI-Gym based agent to play air-hockey

## EDUCATION

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**Chennai, Tamil Nadu, IN**                                      **SSN College of Engineering**                                      **2017 – 2021 (Tentative)**

- Pursuing B.E. in Computer Science and Engineering
  - 8.3 / 10 CGPA (5 / 8 semesters) - Anna University
  - Member of Competitive Coding Club, Google App Development Club
  - Representative in The Class Committee Group

**Udhampur, Jammu Kashmir, IN**                                      **Kendriya Vidyalaya No. 1**                                      **2005 – 2017**

- 89.4 / 100% (class 12th) - Central Board of Secondary Education
  - Physics, Chemistry, Mathematics, Computer Science
- 10 / 10 CGPA (class 10th) - Central Board of Secondary Education

## TECHNICAL SKILLS

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### Programming

- Python • C++ • C • Java • HTML • SQL • Assembly •  $\text{\LaTeX}$  •

### Hardware

- ESP32 • CC3D • Arduino •

### Platforms

- AWS • ESP-IDF • Android • MySQL • OpenPilot • Arduino IDE •

## WEEKEND PROJECTS

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- **Neural Network Visualizer** - A simple neural network visualizing web application
  - Using Streamlit, Keras and Flask
- **Image Denoising** - Autoencoder based denoising of a given grainy image
- **Image Upscaler** - Image upscaling using autoencoders
- **Synthetic Image Generator** - Generate artificial images similar to training images, using DCGANs

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## ADDITIONAL COURSES AND CERTIFICATION

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- **Deep Learning Specialization:** (ongoing) [deeplearning.ai](https://deeplearning.ai)
- **Algorithm Design:** Penn MOOC
- **Machine Learning:** Stanford MOOC
- **Data Science Methodology:** IBM
- **AI on the Edge:** (introductory) Intel
- **Spanish Level A1 equivalent:** InAWord Chennai

## POSITION OF RESPONSIBILITY

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<b>Organizer</b>	<b>Invente 2k19</b>	<b>SSN Annual Tech Fest</b>
• Problem setter for Data Structures and Algorithms path of Technical Quiz.		
<b>Education Volunteer</b>	<b>Defence Expo 2k18</b>	<b>International Exhibition</b>
• Single point of contact in American Pavilion.		
<b>School Captain</b>	<b>K.V. No. 1, Udhampur</b>	<b>Student Body</b>
• Elected head of the Student Body.		

## PUBLICATIONS

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- **Fossil Fuel Emission Prediction** - Predicted the future CO2 emission in various countries based on historic trends; using various machine learning techniques on the CDIAC dataset, Oak Ridge National Laboratory  
– Paper presentation in International Conference on Recent Trends in Clean Technologies for Sustainable Environment (*CTSE*), September 2019
- **Bot Assisted Software Development** - Concept of a system to structure and catalog program code snippets, such that a bot could read that catalog, understand the working and behaviour of a code block, and fetch it when the programmer needs related or same functionality  
– Published in *IJITEE* (Scopus Indexed) [↗view here](#)  
– ISSN: 2278-3075, Volume-8 Issue-6S, April 2019

## AWARDS AND ACHIEVEMENTS

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- **Rank 8** - Online competition ImageClef 2020 Tuberculosis CT Report: Automated CT-scans report generation (out of 65 research teams)
- **Rank 42** - State level engineering entrance exam JK-CET 2017 (out of 10,000 candidates)
- **Scholarship Recipient** - Full waiver for Bachelors Degree - from All India Council of Technical Education, Govt of India
- **Certificate of Honor:** National Winner of Gurutsav 2014 - from Dept of Human Resource Development, Govt of India
- **Certificate of Appreciation:** Part of team representing Jammu Region in the finals of National Science Congress - from Dept of Science, Govt of India

## EXTRA CURRICULAR ACTIVITIES

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- **National Service Scheme** - Volunteer
- **National Cadet Corps** - former Cadet with A-Certificate
- **Bharat Scouts and Guides** - former Scout with RajyaPuraskar, served as The Senior Patrol Leader