My Website
LinkedIn Github

UJJWEL BALWAL

+91 (9797) 381-569
ujjwel17179@cse.ssn.edu.in

EXPERIENCE

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

- Implemented sanity checks for new Amazon AWS Customers.
- Designed sanity checks for MS Azure clients.
- Automated sanity checks and metric collection using AWS Lambda.

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 air-hockey playing agent.

EDUCATION

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

- Persuing 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

Programming

- Python • C++ • C • Java • HTML • SQL • Assembly • LaTeX•

Hardware

- ESP32 • CC3D • Arduino •

Platforms

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

ADDITIONAL COURSES AND CERTIFICATION

- **Deep Learning Specialization:** (ongoing) 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.

WEEKEND PROJECTS

- **Neural Network Visualizer** - A simple Neural Network Visualizer web application
  - Using Streamlit, Keras and Flask
- **Autoencoder based Image Upscaler** - Image upscaling using autoencoder trained on a standard dataset.

Position of Responsibility

Organizer **Invente 2k19** **SSN Annual Tech Fest**

- Problem setter for Data Structures and Algorithms path of Technical Quiz.

Education Volunteer **Defence Expo 2k18** **International Exhibition**

- Single point of contact in American Pavilion.

School Captain **K.V. No. 1, Udhampur** **Student Body**

- Elected head of the Student Body.

Awards

- **Recipient of Full Waiver Scholarship for Bachelors Degree** - from All India Council of Technical Education.
- **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.

Publications

- **Fossil Fuel Emission Prediction System** - 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