

# Aditya Prakash Gupta

Final Year Undergraduate | Electronics Engineering  
Software Development Engineer

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## Academic Qualifications

Degree/Certificate	Institute	CPI/Percentage	Year
B.Tech (ECE)	Indian Institute of Technology (BHU), Varanasi	9.23/10	2022
ISC (Class XII)	Dr. Virendra Swarup Education Centre	97.0 %	2018
ICSE (Class X)	Dr. Virendra Swarup Education Centre	97.4 %	2016

## Work Experience

- **Oracle India** May'21-July'21  
Bengaluru, India  
Member of Technical Staff | Server Technology Internship
  - Worked in the **Visualization Services** team of the **Oracle Cloud Infrastructure (OCI)**
  - Wrote an optimized **Java** script to generate **mock data** for an OCI Tenancy in a suitable data format for the User Interface
  - Built a **REST API** in **Dropwizard** to create,read,update,delete (**CRUD** operations) the generated mock data
  - Created a Responsive UI to visualize relationships between various OCI Resources and Compartments within a tenancy
  - Wrote End to End Tests and analysed the Application Performance along with dockerizing it
  - **Exposure:** Java, Dropwizard, Swagger, JavaScript, ReactJS, Data Driven Documents(D3.js), Docker

## Key Projects

- **Entertainment Info Website** | *Self-Project* March'21-April'21
  - Created an **Angular** Frontend showing information of various Movie/TV Shows by making **GET** calls to the backend
  - The **Express** backend further makes GET Calls to the **OMDB (Open Movie Database) API** parsing different queries
  - Implemented features like Searching movies/shows and hosted the website with the help of **AWS EC2 instance**
- **Udacity Self Driving Car Simulation** | *Udyam'20- Technical Fest of Electronics Engineering Society* March'20-April'20
  - Trained a **CNN Model** using the dataset generated from **Udacity Self Driving Car Simulator**
  - Implemented **PID mechanism** to maintain **constant speed** and **central alignment** of the car
  - Successfully implemented and tested the model to drive the car over an **unseen track** with **98% accuracy**
- **Hand Written Captcha Solver** | *Udyam'20- Technical Fest of Electronics Engineering Society* March'20-April-20
  - Trained a **CNN Model** using **0.8** million characters from **47** unbalanced classes present in **EMNIST byMerge** dataset
  - Implemented optimization techniques like **Adam** optimizer, dropouts and **Regularization** methods to prevent overfitting
  - Successfully implemented **Real-Time Handwritten Captcha Solver**, to achieve **92% accuracy** on test dataset
- **Autonomous Path Mapping Robot** | *Pixelate, Technex'19- Technical fest of IIT (BHU) Varanasi* Feb'19-March-19
  - Designed an Autonomous Robot that travelled across the maze according to given set of rules using **overhead camera** feed
  - Applied Image Processing techniques like Contour Detection and Colour Segmentation to make a Graph Data Structure
  - Implemented **BFS algorithm** on the maze to find **shortest path** between two particular cells of the maze

## Technical Skills & Interests

- **Programming:** C/C++, Python, Java
- **Technologies:** Git, HTML/CSS/JavaScript, D3.js, OpenCV, Keras, AWS EC2 Ubuntu Instance, Arduino
- **Interests:** Data Structures, Algorithms, OOPs, Web Development, Data Visualization, Image Processing, CNN
- **Tools:** Visual Studio Code, IntelliJ IDEA, Sublime Text, Jupyter Notebook/Google Colab, LaTeX, MS Office

## Honours & Achievements

- Received a **Pre Placement Offer (PPO)** after the end of internship from **Oracle**
- Changed **Department** to Electronics Engineering on the basis of **merit** and SPI of **9.72/10** in the first semester
- Eligible for **INSPIRE** Scholarship for attaining a position among **top 1 percentile** students in Class **XII** Board Examinations
- Secured **2nd position** in **Pixelate'19** and **Pixelate'20**- Image Processing Events organized by Technex- technical fest of college
- Secured **3rd position** in **Funckit'19** and **Digisim'20**- Digital Electronics Events organized by Electronics Engineering Society

## Positions of Responsibility

- **Content and Creative Head** | *Udyam'21- Technical Fest of Electronics Engineering Society*
- **Web Development Lead** | *Aero-Modelling Club, IIT (BHU) Varanasi*
- **Event Executive** | *D'aero Glisseur, Technex'20- Techno-management Fest of IIT (BHU) Varanasi*

## Extra-Curricular Activities

- Active Participation in Online Competitive Programming Contests
  - **Google Kickstart:** Secured **Global Rank 1260** in Round G 2019 and **1919** in Round C 2021 among 15000+ participants
  - Maximum Rating: **1882**- Codechef(adipro167), **1607**- Leetcode, **1559**- Hackerearth and **1506**- Codeforces (adipro1167)
- Active member of Aero-Modelling Club, IIT (BHU) Varanasi
  - Progressed to **Round 2** of **IIT National Aeromodelling Competition 2019-20** organized by **Boeing** at IIT Kharagpur
  - Organized and contributed to various events and workshops for juniors and other colleges as a Club Member
- Awarded a Certificate of **Excellence** for outstanding performance in **Quollab's Virtual Product Management Experience**