

Aditya Prakash Gupta

☎ +91-6387788385 | ✉ adityapgupta.ece18@iitbhu.ac.in | 🔗 LinkedIn | 🐙 GitHub | 📁 Portfolio

EDUCATION

Indian Institute of Technology (BHU), Varanasi

B.Tech in Electronics Engineering; CPI: 9.21/10.00

Varanasi, India

July 2018 – June 2022

WORK EXPERIENCE

Oracle Cloud Infrastructure

Bengaluru, India (Remote)

Server Technology Intern — Visualisation Service

May 2021 – July 2021

- Wrote an optimized **Java** script to generate **mock data** for an OCI Tenancy in a suitable data format for the UI
- 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 in a tenancy
- Wrote End to End Tests and analysed the Application Performance along with dockerizing it
- Exposure: Java, Dropwizard, JavaScript, ReactJS, D3.js, Microservices, RESTful API, Docker, Swagger

PROJECTS (DURING ACADEMICS)

Entertainment Info Website

Oct 2021 - Nov 2021

- Built an **Angular** app displaying info of various Movie/TV Shows, calling **REST** api exposed by **ExpressJS**
- **Express/NodeJS** backend fetches data from 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**

Autonomous Path Mapping Robot

Feb 2020 - Mar 2020

- Designed an Autonomous Robot travelling across the maze as per given set of rules using **overhead camera** feed
- Applied Image Processing techniques like Contour Detection and Colour Segmentation to make a **Graph**
- Implemented **BFS algorithm** on the maze to find **shortest path** between two particular cells of the maze

Hand Written Captcha Solver

Nov 2020 - Dec 2020

- Trained **CNN Model** using **0.8** million characters from **47** unbalanced classes as per **EMNIST byMerge** dataset
- Implemented optimization techniques like **Adam** optimizer, dropouts and **Regularization** methods
- Successfully implemented **Real-Time Handwritten Captcha Solver**, to achieve **~92% accuracy** on test dataset

Deep Learning Based Udacity Self-Driving Car Simulation

Aug 2021 - Sept 2021

- 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

SKILLS

Programming: C, C++, Java, Python

Technologies: Git, Grafana, Terraform, CI/CD Pipeline, OCI Cloud Services, HTML/CSS/JavaScript, OpenCV

Interests: Data Structures, Algorithms, Problem-Solving, Backend Development, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Low Level System Design, Image Processing

Tools: Jira, Confluence, VS Code, IntelliJ, Pycharm, Jupyter Notebook, Notion, AI helpers- ChatGPT, Bard

AWARDS AND ACHIEVEMENTS

Oracle Summer'21 Server Technology Internship: Received a **PPO** for excellent performace.

Pixelate- Image Processing Competition: Secured **2nd position** in 2019, 2020 editions among 100+ participants.

Funkit'19, Digisim'20- Digital Electronics Competition: Secured **3rd position** among 100+ participants.

Inspire Scholarship: Eligible for securing **97%** in Class XII Board Examinations and being in **top 1 percentile**.

Laptop from State Government: Awarded for outstanding performance in Class X Board Examinations and securing **97.4%**.

- Certifications: OCI 2022 Foundations Associate (Oracle), Building RESTful Web Services with Dropwizard (LinkedIn Learning), Neural Networks and Deep Learning (DeepLearning.AI), Java, Problem Solving Basic and Intermediate (Hackerrank).
- Sports Programming:
 - * **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.)
- Oracle Volunteer in **Cyber Crime Awareness Programme**, awaring middle school students about cyber crime.
- **Special Mention** from **IIT BHU, Varanasi** for significant contributions and responsibilities to the Students Gymkhana Organisational Activities:
 - * **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.*
 - * Progressed to **Round 2** of **Boeing IIT National Aeromodelling Competition 2019-20.**
- Awarded a Certificate of **Excellence** for outstanding performance in **Quollab's Virtual Product Management Experience.**