



Avneet Singh Bedi

 [avneets2103](#)  [leetcode/avneets2103](#)  [portfolio/avneetSingh](#)  [avneets2103](#)  avneets2103@gmail.com

EDUCATION

Netaji Subhas University of Technology
B.Tech in Computer Science and Artificial Intelligence

June 2025

CGPA: 8.71

Jagannath International School
12th grade, CBSE

May 2021

Percentage: 95.5%

WORK EXPERIENCE

Mahindra Logistics | *Internship Certificate*

Feb. 2024 – April 2024

- Completely revamped LogiPulse - Mahindra's **KPI monitoring software** for warehouses.
- Improved average **API call time** from **520ms to 170ms**.
- Used Industry practises of **Server Side Rendering**, Redux Tool Kit, **Redis**, Typescript etc.
- **Deployed application** on custom pipeline on company's servers.

Deep Learning Research Work

Sept. 2023 – December 2023

- Worked on **Ensemble networks involving Deep Neural Networks** with **dynamic weight assignment**.
- **Improved result accuracy** on existing networks from **98.8% to 99.9025%**.
- Used NBAIoT Dataset, Tensorflow, Pandas, Sklearn, Python.

SKILLS

Artificial Intelligence: Deep learning, GANs, ExplainableAI, Reinforcement Learning, OpenCV, Streamlit

Development: MERN stack, NextJS, Tailwind, Accerternity, ShadCN, Typescript, RTK, Multer, JWT

Languages: C++, Python, Java, Javascript

PROJECTS

IOT botnet detection | *Read Research Paper*

2023

- Detection system for **IOT specific botnet attacks** by classifying network status into **10 classes**.
- Used **Ensemble networks involving Deep Neural Networks** with **dynamic weight assignment**.
- A striking accuracy of **99.9024%** for binary model and **98.8%** on multi classification model, from 98.8% previous highest accuracy.

The Better Car | *Github Link*

2023

- Training my **Agent to drive a simulated car** and make high scores.
- The **Deep Convolutional Proximal Policy Optimization** algorithm allows the agent to learn with every try.
- Demo video captures the process [here](#).

If Squid Game was Real | *Read Report*

2024

- Created a **real-time movement detection** system using computer vision to replicate 'Green Light Red Light'.
- Designed a **self-shooting turret** to target rule violators with foam balls using custom hardware and algorithms.
- Used **YOLO** to train our model and get better at motion mapping.

ACHIEVEMENTS

- **1100+** DSA problems on [LeetCode](#), [GFG](#), and [CodeStudio](#)
- Secured **first position** in Mahindra Logistics Catapult Techathon.
- Finalists in **HackBVICAM**, **InnovateX**, **HackNSUT** & **SRMHacks**.
- Leetcode **Contest rating** of 1594

RESEARCH WORK

Only if Squid Game were Real | *Read Report*

2024

Unveiling Instagram's Recommender System | *Read Research Paper*

2024

IOT botnet detection using Ensemble Deep Learning Network | *Read Research Paper*

2023