TheLethalCode
TheLethalCode (Codeforces)
TheLethalCode (CodeChef)

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Education

2017-2022 (Expected)	B.Tech + M.Tech (Dual degree) in **Computer Science and Engineering** Indian Institute of Technology, Kharagpur	**GPA:** 9.51/10.0 (Till 2nd Semester)
2017	Higher Secondary School Certificate Examination, **CBSE** Maharishi International Residential School, Kancheepuram	**Percentage:** 96%
2015	Secondary School Certificate Examination, **CBSE** Mahatma Gandhi Centenary Vidyalaya, Trichy	**CGPA:** 10/10

Technical Skills

Programming Languages	C, C++, Python, GoLang
Libraries / Frameworks	ROS, OpenCV, Numpy, Requests, Flask, Curl
Systems / Platforms	Docker, Linux, Android, Windows, Git
Others	Bash, Latex, Solidworks

Work Experience

Feb 18 Present — **Artificial Intelligence Team Member** — **Autonomous Ground Vehicle Research Group**

- Working on the planning and localization team at IITKGP's Autonomous Ground Vehicle (AGV) Research Group.
- Created a ROS module for the DWA local path planner and integrated it with the global path planner for optimal trajectory generation.
- Worked on the Dubin's Path generation for the Hybrid A-Star path planner.

Projects

- **DigiCon, OpenSoft 2018 IIT Kharagpur**
  - The software accurately parses and mines the contents of a hand-written doctor's prescription and segregates the medicines along with their corresponding doses and lists them out in a readable fashion.
  - Worked on segregating the medicines and doses from the extracted contents and handled the possible errors that occurred in the IP module by checking for visully similar possibilities
  - The entry won Gold amongst 13 applicants in OpenSoft 2018, IIT Kharagpur.
- **Eklavya 6.0, Intelligent Ground Vehicle Competition (IGVC) 2018**
  - A robot capable of automatically navigating from one GPS co-ordinate to another by following a lane while handling all the obstacles in the path with the help of sensors and complex algorithms.
  - Worked on the part responsible for generating the local and global path and localizing the bot from the sensor data.
  - The bot bagged the 2nd position in the IGVC 2018 held at Oakland University, Michigan.
- **BrkOut, A game made using PyGame**
  - An interactive game that incorporates real time collision and momentum conservation in a graphical interface made using Pygame. It also uses a basic encryption which emphasizes the prison-breaking theme of the game.

Related Courses

*** Currently Studying**

- **Algorithms and Data Structures**
- **Discrete Structures**
- **Image Processing ***
- **Advanced Graph Theory**
- **Machine Learning ***

Interests

Algorithms and Data Structures, Integration of Machine Learning with Image Processing, Natural Language Processing, Networking, Hacking

Achievements & Involvements

- **Co-Founder, CodeStash IIT Kharagpur**
  - An organization that increases the awareness of various opportunities within the programming community while helping to promote the coding culture within the campus.
- **Member, Kharagpur Open Source Society & CodeClub**
  - Societies that help to promote programming within the KGP community by organizing workshops and fests and helping them overcome common problems.
- **Scholastic Achievements**
  - **AIR 322 - JEE Advanced** (99.8 percentile) .
  - **AIR 1784 - JEE Mains** (99.8 percentile)
  - **KVPY** Scholar