

Guhan Kumaran

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Profile

Motivated freshman pursuing degree in electrical engineering with experience in robotics, artificial intelligence, and group organization. Cultivated leadership skills, good communications, and demonstrated skills in research, prototyping, and innovation.

Education

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| 08/2021 – 05/2025. | Bachelor of Science in Electrical engineering at the Swanson School of Engineering, University of Pittsburgh. A full scholarship and grant recipient and a part-time research applicant at Carnegie Mellon University.
Sub: English, Engineering-Math, Physics, Chemistry, Calculus |
| 08/2008 – 06/2021 | Senior student, Class of 2021, Delhi Public School (DPS), Chandigarh. Served as student council president, head Olympiad committee, member of video-editing team, and won 21 Olympiad and talent exams medals throughout. Secured 92.6 % percentage in XII (CBSE).
Sub: English, Math, Physics, Chemistry, Computer Science |

Residence & Bio

Permanent Address: E-21, IMTECH Colony, Sector 39-A, Chandigarh, 160036.

Father Name: Dr. S. Kumaran, Senior Principal Scientist, IMTECH, Chandigarh

Mother Name: M. Murugeswari.

Tel: 91-172-2880596

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Professional Experience

- **Electromagnetic suspended train project.** Designed a electromagnetic suspended train based on the principles Faraday's Law and present at the high school science fair (08/2018)
- **School IT and Video editing member:** Recorded and edited videos of school and worked with teachers and juniors in coding (06/2019 – 06/2021)
- **Developing machine learning model for Covid-19:** Self trained and developed supervised and unsupervised models for Covid-19 using published data (08/2020 – 03/2021)

- **Deep learning neural network models for image classification:** Developed regression, and transfer learning models for predicting images from videos and websites like amazon (03/2022 – present)
- **Snake robot building and application project:** Involved as a part-time researcher with Professor Howie Choset group at the Carnegie Mellon University. Using Pybullet and python libraries, I am learning to design adaptable snake-robots for faster and accurate mobility.

Other Societal and Free lancing activities

- Very active member of IMTECH-colony langar group: Helping to organize langar events and serve to members of our community, visitors of religious places and hospitals.
- Active member and leader of event organizing groups at IMTECH-Colony: Team worked with young members of IMTECH-colony community to organize all institute's and community events marking special occasions.

Skills

Electronic circuits: Practical and lab experiences in design and testing of circuit boards

Programming: Average to good skills in Python, SQL, MATLAB, R, and C.

Artificial Intelligence: Good experience in using Python backed libraries; TensorFlow, Keras, Pytorch. Have working and practical knowledge in building binary and multi-classification machine learning and neural network models for different applications.

Basic lab related: Very familiar working with Windows, MAC, and Linus OS. Good skills in using excel, power point and word processors for preparing projects and statistics.