VINEET TAMBE

Bachelor of Engineering in Electronics & Telecommunications

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EDUCATION

Pune Institute of Computer Technology

Bachelor of Engineering(E&TC)

July 2017 – Ongoing Pune, India

- CGPA : 9.53

SKILLS

C++ | Java | Python | Embedded C | MATLAB | Robotics | Machine Learning | Deep Learning | NLP | Computer Vision | Cybersecurity | Circuit Design

EXPERIENCE

Research and Development Intern

United for Nature Foundation

Aug 2020 –Ongoing Pune

- Building a drone + LiDAR + rover modular system to map forest area to track tigers.

Electronics and Coding Developer

PICT-Robotics

July 2017 – Aug2020 Pune

- Worked on the electronics and code for catching, placing, throwing and kicking movements for the 2019-20 bots.
- Built an autonomous quadruped for 2018-19 competition.
- Integrated the PS4 controller to control the robots.

Wokshop - Introduction to Robotics

PICT-Robotics

Aug 2019 Pune

- Organized and taught the participants to build small bots using arduino and generic sensors.

ACHIEVEMENTS

Qualified top 2 in MyGov Grand Cybersecurity Challenge - Received a grant of 5 lakh Rupees

National Level Competition

June 2020 –ongoing Pune

Amongst the top teams in ABU Robocon Asia Pacific 2018-19

PICT-Robotics

June 2020 Pune

PROJECTS

Integrated System for COVID-19

PICT Startup & Innovation Cell

July 2020 – Aug 2020 Pune

- Built a system that scanned the barcode on the ID card and performed mask detection using image processing
- Detected temperature of the individual and updated it on cloud and the UI
- Integrated contactless sanitizer dispenser

Analysis of Healthcare Infrastructure

PICT

July 2020 – Ongoing Pune

- Analyzing the supply of human resources and infrastructure to handle COVID-19 Cases
- Built a Recurrent Neural Network(ARIMA) to predict number of new cases with accuracy 97.14% and total cases with an accuracy of 98.58%

Defense against Advanced Attack Vectors

PICT Cybersecurity

Jan 2020 – Ongoing Pune

- Proposed a novel approach for securing existing biometric infrastructure by detecting liveliness and spoofing attempts.
- Ideation of a touch-less fingerprint detection and authentication
- Accuracy - Defended against 7/10 Attack Vectors

Electric Taser Gun

PICT

Aug 2019 – Dec 2019 Pune

- Built a cost-effective tool to improve women's safety in India. On trigger location of the offense is stored in a database and updated every minutes.
- messages are sent to all the relevant Emergency Helplines and registered numbers.

COURSES

- Robotics: Aerial Robotics - University of Pennsylvania
- Robotics: Mobility - University of Pennsylvania
- Robotics: Computational Motion Planning - University of Pennsylvania
- Machine Learning - Stanford university
- Neural Networks and Deep Learning- deeplearning.ai
- Deep Learning - IBM