

SHARAD TEMBHURNE

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EDUCATION

NYU Tandon School of Engineering, Brooklyn, NY

August 2022 - Present

Master of Science in Computer Engineering

GPA: 3.78/4

Relevant Coursework: Data Structures & Algorithms, Machine Learning

Maharashtra Institute of Technology, Pune, India

July 2015 - May 2019

Bachelor of Engineering in Electronics and Telecommunication

GPA: 7.84/10

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, React, OTX, C/C++,

Tools and IDEs: VS Code, Eclipse, GitHub, JIRA, Spring Tool Suite, CANoe

EXPERIENCE

KPIT Technologies, Pune - Software Engineer

November 2019 - July 2022

- Developed OTX scripts by following ISO 13209 to test the diagnostics functionality of microcontrollers
 - Developed Java codebase to automate the generation of the OTX scripts using Spring Tools Suite IDE
 - Authored ODX Data with respect to Unified Diagnostic Services & On-Board Diagnostic Protocols
 - Tested OTX scripts to validate diagnostic functionalities of Automotive Electronic Control Units
 - Developed various React components from scratch with minimal software requirement specification
 - Gained competency in Embedded C and Python to understand various programming paradigms
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PROJECTS

Swarm Robots

January 2018 - April 2018

- Designed prototypes and built multiple Swarm Robots which work collectively using ATmega32P
- Developed an Android app for communication between the mobile and master robot using Bluetooth
- Accomplished successful working of each robot with minimal command signals to the robots

Application-Specific IC for Convolutional Neural Network

August 2018 - April 2019

- Identified three layers of Convolutional Neural Network as 'Convolution', 'Pooling', & 'ReLU'
 - Developed code on MATLAB for a linear array of the three layers of the Convolutional Neural Network
 - Obtained VHDL code for three layers of the Neural Network using MATLAB HDL Coder
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POSITIONS OF RESPONSIBILITY

Vice Chairman, MIT IEEE

- Organized a two day inter college coding competition 'Code-Jam' for more than 50 participants
- Organized and conducted a 2-day workshop on the basics of TI microcontrollers for 30 participants
- Coordinated a technical workshop on the basics of Arduino for 15 participants

Vice President, MARS, MIT

- Spearheaded a team of 8 members at MIT E&TC Association for Recreation and Sports
- Managed venue, events, and participants for various sports over a period of six months

Cultural Head, Bhumi NGO

- Monitored a team of 18 event heads for cultural events for approximately 600 underprivileged children
 - Strategic planning of events with coordinators for seamless running of all cultural activities
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AWARDS & ACHIEVEMENTS

Co-Curricular

- Awarded certificate from KPIT Tech. for commitment towards the team that led the team to success
- Secured 1st rank in the C programming coding challenge 'Blind-C' at MIT Pune's 'Texephyr '16'
- Secured 1st rank in the 'Coding Challenge' organized by MIT E&TC's Association of Study Skills
- Represented my team in the top 17 teams at 'Transform Maharashtra' organized by CM of MH, India
- Represented MIT in National Technology Dissemination Contest organized by IEEE Pune Section