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: C/C++, Python, Java, JavaScript, TypeScript, HTML, React, OTX
Tools and IDEs: Eclipse, GitHub, JIRA, Spring Tool Suite, VS Code, CANoe

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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 1 st 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