Padega Bharath Kumar

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EDUCATION

Auburn University at Montgomery	**Jan 2024 – Present**
Master's in Computer Science	GPA – 3.80/4.00
Aurora's Scientific Technological and Research Academy	**Jul 2017 – Jul 2021**
B. Tech (Electronics & Communication)	GPA – 7.10/10.00
Sri Chaitanya Junior Kalashala Intermediate Board	**Jun 2015 – Apr 2017**
Intermediate Public Examination (MPC)	GPA – 9.64/10.00
St. Mary's Vidhyanikethan High School	**Jul 2005 – Apr 2015**
Secondary School Certificate	GPA – 9.20/10.00

ACADEMIC PROJECT

Mini Project - Fire Fighting Robot   **Dec 2020**

- **Used** embedded C software on Arduino UNO Board in the project
- **Worked** with a group of 3 members
- **Designed** and implement the hardware and software components of the fire-fighting robot
- **Developed** algorithms and logic to detect and locate fires using sensors and cameras
- **Conducted** thorough testing and debugging to ensure the robot functions effectively
- **Collaborated** and communicated effectively with team members to coordinate tasks

Major Project- **Fingerprint-based car Ignition System**   **Mar 2021**

- **Designed** software components of the fingerprint-based car ignition system
- **Integrated** Arduino and RFID technology to create a secure and reliable ignition system
- **Implemented** fingerprint recognition algorithms to authenticate and authorize users.
- **Ensured** seamless communication between the fingerprint sensor, Arduino, and the car's ignition system.
- **Conducted** thorough testing and validation to ensure the system is accurate and efficient

WORK EXPERIENCE

KPIT Technologies Ltd., Software Test Engineer   **Nov 2021 – Dec 2023**

- **Developed** software (Canoe and CAPL) for testing and validating ECUs
- **Implemented** modifications to existing test cases
- **Reused** code and framework for various ECUs
- **Gathered** and analyzed requirements to develop and design test cases
- **Tested** software applications, ensuring adherence to specifications and functional requirements, and executed comprehensive test cases to validate software performance, usability, and reliability
- **Collaborated** closely with the development team, and provided input to integrate requested changes and improvements to optimize the test environment for efficiency and productivity

Research Assistant– Advanced GNSS Research Laboratory   **Dec 2019-Jan 2020**

- **Collected** raw data from diverse sources, ensuring accuracy and quality
- **Cleaned** and pre-processed data by removing outliers and inconsistencies
- **Conducted** data analysis using formulas, techniques, and statistical methods
- **Identified** specific events of interest and analyzed related data
- **Extracted** meaningful insights and patterns for a deeper understanding

Intern - Machine Learning at Inkwall Technologies Pvt Ltd 2021   **Aug 2021 – Oct 2021**

- **Participated** in a seminar on machine learning and demonstrated knowledge and skills through a quiz, resulting in being shortlisted among the top 2 out of 68 participants
- **Worked** on machine learning projects under the guidance of professionals at Inkwall Technologies, gaining hands-on experience in applying machine learning techniques and algorithms to real-world datasets

EXTRA-CURRICULAR ACTIVITIES

Event Manager - Udbhav, College Fest   **2018-2019**

• **Orchestrated** and coordinated various aspects of Udbhav, a college fest, including venue selection, budgeting, event scheduling, vendor management, and logistics

• **Oversaw** event promotion and marketing strategies, leveraging social media platforms, print media, and campus outreach to ensure maximum participation and engagement

Organizer - Bathukamma   **2019-2020**

• **Spearheaded** the planning and execution of Bathukamma, a cultural event, coordinating activities such as stage setup, artist management, event registration, and attendee communication

• **Collaborated** with a team to curate a diverse range of cultural performances, workshops, and competitions, ensuring a memorable and engaging experience for participants and attendees Organizer Bathukamma

Social Worker   **2020 - 2021**

- **Haritaharam -** Planted approx. **200** plus trees with a team of **35** members
- **Cancer Run –** Participated in the **10** Kilometer (**6.2** Miles) Cancer Run to raise awareness that cancer is treatable and curable

SKILLS

Languages – English, Hindi, Telugu
ICT – C, C++, SQL, Python, Java, HTML, CSS3
Certifications – Java Full Stack Web Development- DDUGKY (Syncomint Solutions Private Limited)-2020