

Shashank Kumar

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EDUCATION

- B.M.S College of Engineering** Bangalore, India
• *Bachelor of Engineering - Computer Science & Engineering; GPA: 8/10* July 2018 - Present
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

PUBLICATIONS/CONFERENCE

JOURNAL ARTICLES

- **J3:** Jeevithashree DV, **Shashank Kumar**, Pradipta Biswas, "Website evaluation using WCAG tools and its imitation using Cambridge simulator.", International Journal of Human-Computer Interaction - **Taylor&Francis** (2020). [Link to paper](#)
- **J2:** **Shashank Kumar**, Shreyash Adhikari, Antara Roy Chaudhury, "An Empirical Study on Algorithms – Comparison Based Sorting Techniques.", International Journal of Information Technology - **Springer** (2020). [Link to abstract](#)
- **J1:** **Shashank Kumar**, "A mechanism to overcome the toppling problem of a hexapod.", International Journal of Intelligent Robotics & Applications - **Springer** (2020). [Link to abstract](#)

SELECTED CONFERENCES

- **C1:** **Shashank Kumar**, Jeevithashree DV, Pradipta Biswas, "Accessibility evaluation of websites using WCAG tools and Cambridge Simulator.", 18th International Web for All Conference (**W4A 2021**), In: Ljubljana, Slovenia. [Link to paper](#)

RESEARCH EXPERIENCE

- Indian Institute of Science (IISc), Bangalore** July 2020 - Ongoing
• *Guide: Dr.Pradipta Biswas, Assistant Professor, Centre for Product Design & Manufacturing* [Link to certificate](#)
 - : Evaluated websites using W3C tools, imitated them using the Cambridge Simulator to determine if web content meets the accessibility guidelines & proposed a concept of a common user profile format.
- Nokia Research & Development Centre, Bangalore** April 2020 - September 2020
• *Guide: Mr.Rajat Duggal, Senior R & D Engineer* [Link to the presentation](#)
 - : Proposed a low-cost based multi terrain adaptive array antenna design.
 - : Implemented a genetic algorithm on the smart array antenna to improve its efficiency using MATLAB/Octave.
 - : Improved the design of the existing antenna by using a tilted conical shaped antenna.
- B.M.S College of Engineering, Bangalore** January 2020 - March 2020
• *Guide: Prof.Antara Roy Chaudhary, Assistant Professor, Computer Science Department* [Link to the paper](#)
 - : Performed a review of all the sorting algorithms available.
 - : Compared the performance of each algorithm with exiting methods.
- Defence Research & Development Organisation (DRDO), Bangalore** July 2019 - August 2019
• *Guide: Dr. Nitin Dhiman, Scientist 'C', Centre for Articial Intelligence & Robotics (CAIR)* [Link to the paper](#)
 - : Devised a mechanism to overcome the toppling problem of a Hexapod.
 - : Integrated 3 sensors on a scout robot using C++, ROS and Gazebo.

SELF-UNDERTAKEN PROJECTS

- **OpenCV & Python [Autonomous path traversal robot]** : Path detection , navigation , motor control, shape and colour detection on Raspberry Pi3. **[Face recognition & security]** : Protect the computer against strangers. If scammers want to log in to the computer, ring the phone and lock the computer screen automatically.
- **HTML, CSS & Javascript [Wikipedia Search Engine]** : A search engine that pulls data from Wikipedia. And if you don't have anything in your mind to search for, you can press the Random Article button. **[Weather App]** : Created an app using API to display real time weather data from a dark-sky website.
- **Python & Logistic regression [Loan predictor]** : Predicts who gets loan and who doesn't based on various financial factors.

SKILLS SUMMARY

- **Languages:** Python, C, C++, SQL
- **Web. & Mob. Technologies:** HTML5, CSS3, Dart, Javascript, MySQL, Bootstrap3, Flutter
- **AI Frameworks/Bi. Tools:** ROS, Gazebo Simul., OpenCV, Tableau, PowerBi, Matplotlib

EXTRACURRICULAR ACTIVITIES

Organizational/Teaching Experience:

- : Mentored a Blockchain Basics course on coursera.org for 2+ years & cleared doubts of hundreds of course takers.
- : Organised a Hackathon event organised by Protocol tech team at college & Rotaract's Youth parliament.
- : Awarded an 'A' Certificate in the National Cadets Corps training & supervised an obstacle training course.

Sports Activities:

- : Won a Silver medal in the Regional level Boxing tournament held in Chennai.
- : Represented B.M.S College of Engineering at Intercollegiate sports tournament in Boxing.