SHASHANK KUMAR

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EDUCATION

B.M.S College of Engineering, Bangalore

August 2018-Present GPA 8/10

Bachelor of Engineering in Computer Science & Engineering

Affiliated to Visvesvaraya Technological University (VTU)

SKILLS

Programming Languages: Python, C , C++ , Java , JavaScript , MATLAB

Hardware: System Verilog, Embedded C , Assembly , LTspice

Technologies/Frameworks: ROS, OpenCV, Android Studio, scikit-learn, Tensorflow, PyTorch

Databases: MySQL, Oracle Database, MongoDB

Operating Systems: Android , Linux , iOS

PUBLICATIONS / CONFERENCE

[C1] Shashank Kumar, Jeevitha Shree DV, Pradipta Biswal, "Website evaluation using WCAG tools and its imitation using Cambridge simulator.", (Frontiers & ACM) 18th International Web for All Conference (W4A), In: Ljubljana, Slovenia. (2021) [LINK]

[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]

[J1] Shashank Kumar, "A mechanism to overcome the toppling problem of a hexapod.", International Journal of Intelligent Robotics & Applications (Springer) (2020) [LINK]

RESEARCH EXPERIENCE

Indian Institute of Science (IISc), Bangalore

July 2020 - Present

Guide: Dr. Pradipta Biswas, Assistant Professor, Centre for Product Design & Manufacturing (CPDM)

- · Evaluated websites using the W3C tools to determine if web content meets accessibility guidelines.
- · Imitated websites using the Cambridge simulator and prepared a paper on the same.

Nokia Research & Development Centre, Bangalore

March 2020 - Present

Guide: Mr. Rajat Duggal, Senior R & D Engineer

- · Proposed a low-cost based multi terrain adaptive array antenna design.
- \cdot Implemented a genetic algorithm on the smart array antenna to improve its efficiency and improved the design of the existing antenna.

B.M.S College of Engineering, Bangalore

January 2020 - March 2020

Guide: Prof. Antara Roy Chaudhary, Assistant Professor, Department of Computer Science & Engineering

· Performed a review of all the sorting algorithms available and compared the performance of each with exiting methods.

Defence Research & Development Organisation (DRDO), BangaloreJuly 2019 - August 2019
Guide: Dr. Nitin Dhiman, Scientist 'C', Centre for Artificial Intelligence & Robotics (CAIR)

- · Integrated 3 sensors on a scout robot using C++, ROS and Gazebo.
- \cdot Devised a mechanism to overcome the toppling problem of a Hexapod and got it published as my first publication.

SELF-UNDERTAKEN PROJECTS

Autonomous path traversal robot: [Link]

OpenCV & Python

· Path detection, navigation, motor control, shape and Colour detection on Raspberry Pi3.

Loan predictor: [Link]

Puthon & Logistic regression

· Predicts who gets loan and who doesn't based on various financial factors.

Wikipedia Search Engine: [Link]

HTML, CSS & Javascript

· 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.

Face recognition & security: [Link]

OpenCV & Python

· Protect the Computer against strangers. If scammers want to log in to the computer, ring the phone and lock the computer screen automatically.

Weather App [Link]

HTML, CSS & Javascript.

· Created an API to display real time weather data from a darksky website.

RELEVANT COURSEWORK

AlgorithmsData Structures
Operating SystemsComputer Architecture
Database Management SystemsMicroprocessors & Micro controllers

Linear Algebra
Discrete Maths & Statistics
Theoretical Computations

EXTRACURRICULAR ACTIVITIES

Volunteering & Organisational Experience:

- · Organised a Hackathon event organised by Protocol tech team at college & Rotatact's Youth parliament.
- · Awarded an 'A' Certificate in the National Cadets Corps training & supervised an obstacle training course for new recruits.
- · Visited an old age home as a student member of the Rotaract club & participated in Green commute & Plog run to promote environmental activism.

Sports Activities:

· Won a Silver medal in the Regional level Boxing tournament held in Chennai & represented BMS College of Engineering at Intercollegiate sports tournament in Boxing.