Noorjahan M Shaiwale

B.Tech
Electrical and Electronic Engineering
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SUMMARY

Motivated Electrical Engineering student with expertise in programming (C, C++, Python,SQL) and design tools like MATLAB and Jupyter Notebook. Experienced in developing advanced image segmentation systems and autonomous robots, with research presentations at IEEE conferences and national expos. Proven leadership skills as Head of the Media Team for the Electrical Engineering Students Association, driving community engagement and innovation.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., EEE	Kle Technological University, Huballi	8.78	2021-Present
Senior Secondary	JSS R S Hukkerikar Science College, Dharwad	90.1	2021
Secondary	Shri Manjunatheshwara Central School, Dharwad	88.4	2019

PROJECTS

- **Image segmentation in Surround-view camera:** *Feb 2024-Jun 2024*
  Tools:Computer Vision Toolbox, Deep Learning Toolbox, Deep Learning Toolbox Model for ResNet-18 Network.
  ◦ Developed an advanced image stitching system for seamless panoramic views enhancing visual detail and enabling accurate object classification for surveillance and mapping applications under the guidance of NVIDIA mentors.
  ◦ Created robust image stitching with advanced feature detection and seamless blending. Enabled segmentation for accurate object classification

- **Differential Drive Robot For Obstacle Avoidance Using Ros and Gazebo:** *Nov 2023-Feb 2024*
  Tools: ROS Kinetic
  ◦ Developed an autonomous differential drive robot with ROS and Gazebo.
  ◦ Engineered and optimized the differential drive robot's functionality with ROS and Gazebo, integrating LiDAR for dynamic obstacle detection and refining real-time navigation performance.

- **Surround View System Implementation on NVIDIA Jetson** *Jan 2025 – May 2025*
  Tools: NVIDIA Jetson AGX Orin, Arducam x6, OpenCV, GStreamer
  ◦ Developed a real-time surround-view image stitching system using 6 synchronized Arducam CSI cameras.
  ◦ Utilized GStreamer for high-resolution image capture and OpenCV for stitching.
  ◦ Enabled panoramic preview and recording, supporting full 360° camera coverage.

SKILLS

- **Programming Languages** : C, C++(OOPS), SQL.
- **Tools** : MATLAB, Jupyter Notebook, VS Code, Simulink.
- **Soft Skills** : Problem Solving, Leadership, Time management, Adaptability.

CERTIFICATIONS

- **Letter of Project Completion, NVIDIA AI Technology Center Program** *15 December, 2024*
- **IEEE Conference Presentation Certification, AIC 2024** *28-29 July, 2024*
- **Certificate of Participation, National Level VLSI Project Expo in RNSIT, Bangalore** *04 May 2024*
- **Certificate of Presentation, IEEE Project Expo-2024 in GSSS , Mysuru** *03 May 2024*
- **Crash course on Python(Google via Coursera)** *October 2023*

POSITIONS OF RESPONSIBILITY

- **Head of Media Team,** EESA (Electrical Engineering Students Association) *Present*
- **Volunteer,** Cultural Odyssey (College Fest) *June 2024*