SAQI HUSSAIN KALAN

CONTACT

Email: *sahilsaqi99@gmail.com* **Our AI Community**: *https://shorturl.at/mDWZS*

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EDUCATION

Master's degree, Artificial Intelligence Convergence

Pukyong National University *SOUTH KOREA* Sep. 2023 - Aug 2025 4.33/4.5

Bachelor of Technology in Computer science and engineering

IKG Punjab Technical University *INDIA* Sep. 2018 - Aug 2022 7.66/10

EXPERIENCE

Researcher

Pukyong National University 01.Sep 2023 – Present, Busan, South Kora

As a researcher, my work focuses on indoor localization using LiDAR and camera vision. I have presented at domestic conferences, such as the KICSP (Korea Institute of Convergence Signal Processing), and have authored several journal articles, which are detailed in the papers section

Software Developer

Innovates IT Solutions LLP 18. October 2022 – 18. August 2023, Mohali, Punjab, India

- Developed 50+ features and modules for a web application that recorded a total of 5 million users and made enhancements to existing features to improve performance by 30%.
- Designed and implemented front-end and back-end functionalities to optimize performance, resulting in a 40% increase in overall system efficiency.

PUBLICATIONS

Journal Articles

Saqi Hussain, Wan Young Chung. "Multi-Modal Data Fusion with CNN-RNN Hybrid Architecture for Enhanced Indoor Localization Using **LiDAR**-SLAM" *IEEE Transactions on Automation Science and Engineering* (*Under review*). *2024*

Conference Presentations

Saqi Hussain, Wan Young Chung. "**SLAM** and **ML** Based Indoor Localization for Improved Emergency Response" *Proceedings of the KICSP, Busan, South Korea, August 2024*

PROJECTS

Content-Based Movie Recommender System with Sentiment Analysis Link

Associated with Punjab technical university

- Developed a movie recommender system that suggests movies like those a user likes based on content similarity.
- Integrated TMDB API to fetch movie details (title, genre, runtime, rating, poster) and utilized BeautifulSoup for web scraping user reviews from IMDb
- Implemented sentiment analysis on user reviews to enhance movie recommendations by analyzing user feedback.
- Used cosine similarity to measure the relevance between movies, based on movie details.

- Designed a front-end API using Flask and deployed the project on Heroku for live demo access.

Tools & Libraries: Python, Flask, TMDB API, BeautifulSoup, Cosine Similarity, Sentiment Analysis.

Posture Detection using Camera Link

p5.js, ml5.js, TensorFlow.js, Frontend Development

- Developed a posture detection system using ml5.js and p5.js for real-time detection without training custom models.
- Utilized ml5.js, a high-level interface to TensorFlow.js, to implement pre-trained machine learning models for pose estimation.
- Integrated p5.js for creative coding and building the interactive front-end of the project.
- Designed and structured the project to run seamlessly in the browser using HTML, CSS, and JavaScript.

Tools & Libraries: p5.js, ml5.js, TensorFlow.js, Visual Studio Code.

CERTIFICATIONS

- **IBM** data science professional certificate View
- **Google** Data analytics professional certificate View

SKILLS

Field of Interest: AI | Machine Learning | Computer vision | LiDAR | SLAM | Robotics

Languages: ROS (robot Operating System) | **Python** | C++| Java | PHP | SQL | R