

# Syed Aman Sha Hussain

[LinkedIn](#) | amansha2001@gmail.com | +91 9739620296

## EDUCATION

**Dayananda Sagar College of Engineering (DSCE) | Bengaluru, India**

July 2023

*Bachelor of Engineering with Honours Degree in Electronics & Telecommunication Engineering (GPA: 9.3/10) | First Class with Distinction*

**SGPTA PU Comp College | Bengaluru, India**

March 2018

*Physics, Chemistry, Mathematics, Biology (PCMB) (93.8%) | Distinction*

## SKILLS

**Programming Languages:** Java, Python, HTML CSS, JavaScript, MySQL, PostgreSQL, C, C#, MATLAB

**Frameworks:** Spring boot, Maven    **APIs & Webservices:** REST

**Tools:** VS Code, Axis, IntelliJ, Git, Microsoft Word, PowerPoint, AWR Cadence, Qualnet, Keil, MySQL Workbench, AutoCAD

**Fluency in** English, Hindi, Kannada, Telugu, and Urdu.

## WORK EXPERIENCE

**Systems Engineer Apprentice, Fidelity Investments India, Bengaluru, India**

March 2024 – Till Date

- Participated in a 6-month intensive Data Science Bootcamp focussing on all key concepts along with their respective case studies.
- Café Project - Analysed floor plans and selected appropriate surveillance devices by calculating storage and bandwidth requirements using AXIS site designer. Executed power calculations on LNL 1320 controllers for various access points.
- Integrated MS SQL with spring boot to automate database updates. Developed a RESTful API for performing CRUD operations on a database along with a frontend interface to interact with the backend services.

**DotNet Intern, LTIMindtree, Bengaluru, India**

Aug 2023 – Nov 2023

- Engaged with Subject Matter experts, mastering DOTNET basics and implementing C#.
- Acquired strong foundation in SQL workbench, JAVA, Cloud fundamentals, JavaScript, HTML and CSS.
- Maintained an impressive overall aggregate of 80% across all technical subjects.

**Software Engineer Intern, Garg Group, Kolkata, India**

Sep 2022 – Jan 2023

- Developed Python scripts using BeautifulSoup to automate data extraction from various logistics websites (DTDC, VRL Logistics, SafeXpress)
- Extracted key information related to package tracking, including status, timestamp, and location.
- Successfully parsed unstructured HTML data and converted into structured format suitable for analysis and application.
- Demonstrated proficiency in web scraping techniques and gained valuable experience in data extraction and manipulation.

**Intern, Hindustan Aeronautics Limited (HAL), Bengaluru, India**

Aug 2022 – Sep 2022

- Installed & monitored sensors, analysed engine parameters (temperature, thrust, SFC) in real-time, generated reports & visualizations for performance assessment.
- Assisted with engine start-up/shutdown procedures, troubleshoot technical issues with sensors & software.
- Investigated relationships between engine parameter and contributed to ongoing research projects.

## ACADEMIC PROJECTS

**Voice based Electronic Mail for Visually Challenged**

July 2022 - July 2023

- Led a team of four and implemented a web application for the underprivileged and challenged people.
- Proficient use of Python and Django for project development. Implemented Google Text-To-Speech and Speech Recognition libraries.
- Designed an accessible user interface with HTML, CSS, JavaScript, and Bootstrap. Integrated email functionality using SMTP, IMAP, RFC822, and MIME protocols.
- Awarded 'Best Project Presentation' amongst a competitive pool of 20+ teams at DSCE Open Day.

**Indian Sign Language and Hand gesture recognition using Python and OpenCV**

Mar 2022 - July 2022

- Led a team of four and created a functional prototype. Achieved accurate recognition of numerical gestures (1-10).
- Developed a hand gesture recognition system using Python and OpenCV, integrating open-source platforms like TensorFlow and Keras for machine learning processes.
- Implemented end-to-end processes, including image capturing, pre-processing, feature extraction, model training and testing, and sign-to-text conversion, addressing communication challenges for specially abled individuals.

### Smart Parking system

Sept 2019 - Nov 2019

- Implementation of a fully-fledged prototype system for parking management using Arduino and C language.
- Awarded a score of 8/10 for the project at ETE project exhibition.

### CONFERENCES & PUBLICATIONS

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- Syed Aman Sha Hussain, Anjala Saikia, Spatica S Jain, Vivek M, Prof.Nagarathna R, **A Review on Voice Based Electronic Mail for Visually Challenged**, *International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)* Vol 10, Issue 4, April 2023( [Paper](#))
- Presented the project, **A Voice Based Electronic Mail for Visually Challenged** at *International Conference on Advances in Engineering and Technology for Intelligent Systems*, Bengaluru, India. (2023).

### LEADERSHIP EXPERIENCE

- **Student Placement Coordinator, Department of Electronics & Telecommunication Engineering, DSCE.** (2021-2023)
- **Senior Student Coordinator for International Conference on Advances in Engineering & Technology for Intelligent Systems, DSCE, Bengaluru, India** May 2023
- **Student Coordinator, Seminar on “Future of 5G with software defined radio”, DSCE, Bengaluru, India** Aug 2022
- **Technical coordinator & Volunteer for State Public Examination at Karnataka Public School, Bangalore.** March 2020

### HONORS AND AWARDS

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- **Academic Achiever, Department of Electronics & Telecommunication Engineering, DSCE, Bengaluru, India** 2019 - 2023  
Bagged seventh rank in the department with a CGPA of 9.3.
- **Best project presentation at DSCE open day, Bengaluru, India.** (2023)