



# Kevin Babu

 [github.com/KevinBabu](https://github.com/KevinBabu)  
 [linkedin.com/in/kevinbabu](https://linkedin.com/in/kevinbabu)

 [kevinbabu.com](https://kevinbabu.com)  
 [kevinbabu9@gmail.com](mailto:kevinbabu9@gmail.com)

## Education

---

**Govt. Model Engineering College(M.E.C)**

Sept 2023 - Present

*B.Tech in Computer Science Engineering*

*Kochi, Kerala*

**St Antony's Public School (S.A.P.S)**

June 2021 - March 2023

*Higher Secondary School*

*Annakal, Kerala*

**Navy Children School (N.C.S)**

June 2011 - March 2021

*Primary and Middle School*

*Kochi, Kerala*

## Relevant Coursework

---

- Data Structures
- Logic System Design
- Object Oriented Java
- Programming in C
- Algorithms
- Professional Communication

## Skills

---

**Languages:** C, Python, JavaScript, HTML/CSS, LaTeX

**Developer Tools:** GitHub, VS Code, /PyCharm/IDLE

**Frameworks:** React, Node.js, Flask,

**Libraries:** pandas, NumPy, Matplotlib

**Soft Skills:** Communication, Collaboration, Critical Thinking

## Projects

---

**AUDIONAV** | *Python, Tesseract, Keras, Teachable Machine, OpenCV, VS Code*

Ongoing

- Spearheaded the development of a wearable, computer vision-based system that utilizes OpenCV and machine learning to provide real-time text reading assistance for visually impaired individuals. This project involved training object detection models to identify relevant objects within a readable distance for the wearer and implementing text extraction techniques using Tesseract OCR. The extracted text is then converted to speech for easy consumption through a user-friendly interface
- Implemented OpenCV and machine learning techniques to identify objects and extract text within a readable distance for wearers
- Contributed to building a user-friendly system that assists visually impaired individuals by converting captured text to speech

**SCHOOL ADMINISTRATION PROGRAM** | *Python, MySQL, Idle, VS Code*

February 2022

- Secure User Management (Python MySQL): Creates dedicated accounts with access control for teachers using Python. Subject teachers edit marks in their subjects through the Python program, updating a MySQL database. Class teachers view all marks and generate reports via the interface. The principal has full system access for complete oversight.
- Facilitates mark entry and retrieval: Subject teachers can efficiently manage student marks within their respective subjects. Class teachers can access a unified view of all student marks for comprehensive reports.

- Streamlines report generation: Class teachers can leverage the system to generate report cards for their students, saving time and effort.
- Solved problems relating to asynchronous tasks

**WEATHER WEBAPP** | *HTML, CSS, JS, API (OpenWeather), VScode* October. 2023

- Real-Time Weather Data (API Integration): Developed a weather web app using HTML, CSS, and JavaScript to fetch real-time weather data through a popular weather API.
- Designed a user-friendly interface with HTML and CSS to display weather information like temperature, conditions, and icons for clear visualization.
- Implemented JavaScript to dynamically update the weather information on the web app based on user input or location detection.

**PERSONAL PORTFOLIO** | *HTML, CSS, JS, API, VScode* April. 2024

- Developed a personal portfolio website showcasing my skills and experience.
- Utilized HTML for structure, CSS for styling, and JavaScript for interactive elements.
- Integrated an external API to enable visitors to send me emails directly through a contact form on the website.

## ***Achievements***

---

**PEGASUS 2.0** October 2023

*Finalists* *Team Event*

- Led development of a wearable computer vision system (OpenCV, machine learning) for real-time text reading assistance for the visually impaired. Trained object detection models and implemented Tesseract OCR for text-to-speech conversion, improving accessibility.

**WINWITHAI** February 2024

*Finalists* *Team Event*

- Led a team to the final stage of an AI competition, utilizing a diverse set of open-source libraries to tackle complex tasks efficiently. Our approach involved leveraging transfer learning with pre-trained models to achieve competitive results.

## ***Leadership/Experience***

---

**COLLEGE UNION** | *Member* Sept. 2023 – Present

Class Representative

- Contributed significantly to the successful execution of diverse campus programs throughout the year, ensuring their smooth operation.
- Managed and oversaw the logistics for Layatharang and Chakravyuh 2024 held at MEC Campus in March and April, leading to their successful completion.
- Supported the Excel Committee during EXCEL 2023's Proshow by assisting with crowd management and ensuring a safe experience for attendees.

**NSDC NLP DEEP DIVE** | *Attendee* February 2024

- Attended a short-term Training program on Natural Language Processing
- Explored fundamentals of natural language processing, gaining exposure in techniques like text tokenization for data preparation and understanding the role of part-of-speech tagging in language analysis.

**MICRO COURSES** | *Kaggle Courses* April-June 2024

- Intro to Machine learning
- Intro to Deep Learning