

# Akash Paila

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## SUMMARY

4th year B-Tech student specializing in CSE, I have acquired strong theoretical and practical skills. Experienced in Data Structures and Algorithms (DSA) using Java and proficient in front-end development. Skilled in Python and OpenCV for computer vision applications. Passionate about leveraging technology to solve complex problems and eager to contribute to real-world projects.

## COURSEWORKS

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|---------------------------------------|---------------------------------|----------------------|
| 1. Data Structures Algorithms         | 2. Computer Architecture        | 3. Operating Systems |
| 4. DBMS                               | 5. Software Engineering         | 6. Computer Networks |
| 7. Internet of Things                 | 8. Embedded Systems             | 9. Machine Learning  |
| 10. Natural Language Processing (NLP) | 11. Math-Tools for Data Science |                      |

## PROJECTS

### Language Tutor

[Link to Demo](#)

Developed a website for pronunciation assessment, grammar checking using audio input, YouTube video transcription, translation, and summarization using the URL of the video. Implemented voice-based authentication for secure login. Developed 3 new models on the existing models, achieving 50% improvement over models like Google Web Speech API, Vosk, Whisper.

**Technologies Used:** HTML, CSS, JavaScript, Python

### Face Recognition Based Attendance System

[Link to Demo](#)

Developed a Face Recognition Attendance System using Python and Tkinter GUI to automate the attendance marking process. The system allows users to mark attendance either through real-time webcam detection or by uploading pictures for recognition.

**Technologies Used:** Python, Tkinter, OpenCV (for image processing), face recognition library.

### Hospital Management System

[Link to Demo](#)

Developed a complete end-to-end Hospital Management System where patients can view their reports and make appointments, doctors can upload reports and process appointments based on availability, and admins can add and view patients and doctors.

**Technologies Used:** HTML, CSS, JavaScript, PHP, MySQL

### Machine Translation using NLP

[Link to Demo](#)

Developed a machine translation system to translate text from English to Telugu, leveraging advanced Natural Language Processing (NLP) techniques. Implemented a sequence-to-sequence (Seq2Seq) model with attention mechanism to handle the nuances of language translation. Achieved 84% accuracy.

**Technologies Used:** Python, TensorFlow, Keras, NLP libraries such as NLTK and SpaCy.

## EXPERIENCE

### Website Team Member

July 2023 - Present

- Collaborated with other developers and designers to maintain and update college official website.
- Implemented website updates, including new content, design changes, and functionality improvements.

### GDSC Core Member, Cloud Computing

June 2022 - June 2023

- Organized workshops and events to promote cloud computing technologies, engaging over 100 students

in hands-on sessions using Google Cloud Platform.

- Mentored peers in developing cloud-based projects, providing guidance on deployment and optimization techniques.

## EDUCATION

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2021 - 2025	Bachelor's Degree at <b>IIIT Raichur</b>	(GPA: 7.0/10.0)
2020	Class 12th	(95%)
2018	Class 10th	(80%)

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, React, Matlab, SQL, PHP, Bash

**Developer Tools:** VS Code, Anaconda, GPT API integration, Automation, Tableau, Power-BI

**Technologies/Frameworks:** GitHub, Kali Linux, OpenAI, API testing with Postman, Excel, TF/Keras/PyTorch, Google Cloud Platform (GCP)

**Soft-skills:** Leadership, Management, Teamwork, Communication, Creative thinking, Analytical & Problem solving