

# RUMANA BEGUM

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## Professional Summary

Aspiring technology professional seeking opportunities to leverage my skills and gain practical experience in a dynamic and innovative environment. Highly motivated to contribute to a professional team, continuously learn, and grow within the technology industry.

## Education

<b>Ramaiah Institute of Technology</b>	2022-2025
B.E.- Artificial Intelligence and Machine Learning	
<b>Acharya Polytechnic</b>	2019-2022
Diploma in Computer Science and Engineering	
<b>Soundarya School</b>	2018-2019
Karnataka Secondary Education Entrance Board	

## Work Experience

<b>Twilearn Edutech Pvt. Ltd</b>	Sep 2023 - Dec 2023
<i>Data Analytics Intern</i>	<i>Remote</i>
<ul style="list-style-type: none"><li>Collected and cleaned data using Python(<b>Pandas, NumPy</b>) and SQL, and analyzed trends and patterns.</li><li>Created visualizations and interactive dashboards with <b>Matplotlib, Seaborn</b>, and <b>Tableau</b> to present insights.</li><li>Developed and evaluated machine learning models using scikit-learn for predictive analytics.</li></ul>	

## Technical Skills

**Languages:** Python, C Programming, C++, JavaScript  
**Backend:** Python, Node.js  
**Frontend:** HTML, CSS, JavaScript  
**AI Stack:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision  
**Scripting and Automation:** Unix Shell Scripting, UiPath Automation  
**Developer Tools:** GitHub, VS Code, Jupyter Notebook, Google Colab, CodeBlocks, UiPath Studio

## Projects

### RealTime Handwritten Kannada Character Recognition.

- Engineered a real-time Kannada character recognition system leveraging **computer vision** and **machine learning** methodologies.
- Developed a model for classifying **40+ character classes**, achieving **93% accuracy** with **CNN**. Simultaneously conducted a comparative analysis of **CNN, SVM**, and **KNN** techniques.
- Developed an interactive interface with the **3DPaint** tool, enabling real-time character input and immediate **classification results**.

### Attendance-Surveillance-System-using-CNN

- Designed and implemented an **Attendance Surveillance System** using **Convolutional Neural Networks (CNNs)**, achieving **87.5% accuracy** in face recognition through **FaceNet** transfer learning.
- Developed a user-friendly interface with **Tkinter** for image uploading, recognition, and results export to **Excel**, enhancing **attendance tracking efficiency** in educational environments.

### Text to Speech and Speech to Text Conversion with NLP Insights

- Implemented **Text-to-Speech (TTS)** conversion utilizing the **Pyttsx3** library and **Speech-to-Text (STT)** conversion with the **SpeechRecognition** library.
- Designed an intuitive **Graphical User Interface (GUI)** incorporating features such as **speed adjustment**, **voice selection**, and **audio export** capabilities.
- Enhanced functionality by integrating **Natural Language Processing (NLP)**, providing advanced **text analytics** including **word/sentence count** and **sentiment analysis**.

## Spoken Languages

Fluent in English, Hindi, Kannada, Urdu.