

# RUMANA BEGUM

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## EDUCATION

- **M S Ramaiah Institute of Technology** 2022-2025  
*B.E - Artificial Intelligence and Machine Learning [CGPA: 8.60]*
- **Acharya Polytechnic** 2019-2022  
*Diploma in Computer Science and Engineering [Grade: 91.49%]*
- **Soundarya School** 2018-2019  
*Karnataka Secondary Education Entrance Board [Grade: 92%]*

## EXPERIENCE

- **Twilearn Edutech Pvt. Ltd** Sep 2023 - Dec 2023  
*Data Analytics Intern* Remote
  - Cleaned and preprocessed data for accuracy, including handling missing values and converting categorical variables using Python's pandas.
  - Visualized data trends and patterns using Matplotlib and Seaborn, and performed basic statistical analyses to derive insights.

## PROJECTS

- **RealTime Handwritten Kannada Character Recognition** [[Source Code](#)]  
*Tech Stack: Computer Vision, OpenCV, TensorFlow, Joblib, Paint3D*
  - Engineered a real-time system for handwritten kannada character recognition, capable of predicting over 40 classes of digits and alphabets.
  - The model achieved an accuracy of over 93% through experiments with algorithms such as SVM, KNN, and CNN.
- **Attendance Surveillance System using CNN** [[Source Code](#)]  
*Tech Stack: MTCNN, FaceNet, Transfer Learning, Tkinter*
  - Designed and implemented an Attendance Surveillance System using Convolutional Neural Networks (CNNs), achieving 87.5% accuracy in face recognition through FaceNet transfer learning.
  - Implemented a user-friendly interface using Tkinter for streamlined image uploading and recognition; enhanced attendance tracking efficiency, enabling faculty members to track and report attendance for over 30+ students.
- **Text2Speech and Speech2Text with NLP Insights** [[Source Code](#)]  
*Tech Stack: Pyttsx3, SpeechRecognition, NLP, Tkinter*
  - Built a Text-to-Speech system using Pyttsx3 and Speech-to-Text conversion with the SpeechRecognition library, featuring a GUI with speed control, voice selection, and audio downloading.
  - Enhanced the project with NLP integration to include word and sentence count, as well as sentiment analysis.

## SKILLS

- **Programming Languages:** C++, Python, C Programming, HTML, CSS
- **AI Stack:** Machine Learning, Deep Learning, Natural Language Processing
- **Developer Tools:** VS Code, Jupyter Notebook, Google Colab, CodeBlocks, Figma
- **Version Control:** Git/GitHub

## ACHIEVEMENTS

### 3rd Runner Up in HumanAIZE FinTech Edition Hackathon

Out of 150+ teams, achieved 4th place for developing a Neo4j-based fraud detection system for P2P transactions, winning 5,000 cash prize by YouData.ai

### Contributor, Bugathon 2024

Identified and reported 15+ bugs in a challenge presented by Hack2skill to enhance software quality and user experience.

## SPOKEN LANGUAGES

Fluent in English, Hindi, Kannada, and Urdu.