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, transformed, and analyzed 300,000+ records using Python and SQL to extract meaningful insights.
- Designed and maintained interactive dashboards in Tableau to visualize 20+ key performance indicators and trends.

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:** Python, C Programming, C++, JavaScript
• **Backend:** Python, Node.js
• **Frontend:** HTML, CSS, JavaScript
• **AI Stack:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision
• **Developer Tools:** VS Code, Jupyter Notebook, Google Colab, CodeBlocks, Figma, Tableau
• **Version Control:** Git/GitHub

ACHIEVEMENTS

• **Secured 4th place in the 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 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.