Riya Mehta

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Education

- **B.Tech in Electronics and IoT**, Netaji Subhas University of Technology (NSUT) — CGPA: 8.07 — *2022–2026*
- **Class XII**, Columbia Foundation Sr. Sec. School — 95.4% — *2021*
- **Class X**, Columbia Foundation Sr. Sec. School — 95.6% — *2019*

Experience

- **Data Science Intern**, Globex Business Express, Delhi — *Jun–Jul 2024*
  - Analyzed import/export logistics to uncover bottlenecks and optimize shipment processes.
  - Developed ML based Freight Mode Recommendation System that suggests best shipping method based on product details.

- **Software Team Member**, ARES: Mars Rover Society, NSUT — *2022–Present*
  - Trained CNNs to classify rock and soil textures from rover imagery for autonomous planetary navigation.
  - Developed hardware control modules for terrain navigation and real-time sensor data acquisition.

Projects

- **Speech Impairment Detection using NLP & Audio Analysis**
  - Designed an ML model to detect signs of speech impairment from audio samples using Whisper and Librosa.
  - Engineered audio feature extraction and score-based classification pipeline achieving high accuracy on the test dataset.
  - **Tech:** Python, OpenAI Whisper, scikit-learn, NumPy, Pandas

- **AI Medical Diagnosis System**
  - Built a disease prediction application that generates diagnostics report based on symptoms using ML and provides advice via Gemini API.
  - Applied DBSCAN to uncover hidden patient patterns and deployed the system using Flask and REST API.
  - **Tech:** Gemini API, Flask, DBSCAN, Pandas, Google Sheets API, REST API

- **Generative AI Desktop Assistant**
  - Developed a voice-activated assistant for real-time task automation, query answering, and smart web browsing.
  - Integrated Google Gemini API with STT, TTS, and web automation for an interactive user experience.
  - **Tech:** Python, speech_recognition, pyttsx3, Gemini API, webbrowser

- **AI-Powered Dog Adoption Platform : Play With Paws**
  - Developed an intelligent recommendation engine that matches users with adoptable dogs based on preferences and behavioral clustering.
  - Integrated secure payment processing using Razorpay and implemented a responsive, user-friendly frontend for seamless interaction across devices.
  - **Tech:** Python, scikit-learn, Razorpay API, HTML, CSS, JavaScript

Technical Skills

- **Languages:** Python, C++, SQL, HTML, CSS, JavaScript
- **Machine Learning & Deep Learning:** Supervised and Unsupervised Learning, CNN, RNN,NLP
- **Data Science:** NumPy, Pandas, data cleaning, feature engineering, time-series analysis
- **Visualization:** Matplotlib, Seaborn
- **AI:** LLMs, RAG ,Prompt Design
- **Tools & Platforms:** Git, GitHub, Jupyter, Google Colab, VS Code,REST API
- **Professional Skills:** Problem Solving, Effective Communication, Team Collaboration

Certifications

- Data Structures and Algorithms – Completed on Codehelp
- Machine Learning – Completed on Udemy
- Deep Learning and Artificial Intelligence – Completed on Udemy
- Prompt Design – Completed on Google Cloud Skills Boost

Leadership & Extracurriculars

- **Student Representative**, Grievance Redressal Council, NSUT — *2023–Present*
  - Liaised between students and administration to resolve academic and policy-related concerns with transparency and fairness.