Meghal Bothra

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Experience

RedyHire — Fullstack Development Intern　　　　　　　　　　**June 2024 – July 2024**

- Led the development of an interview chatbot system using generative AI.
- Implemented RESTful APIs and business logic with FastAPI in Python.
- Designed interactive components using React, enhancing usability.

TALENTITAN — Machine Learning Intern　　　　　　　　　　**Oct 2023 – Dec 2023**

- Developed RESTful APIs using FastAPI in Python, integrating advanced ML functionalities.
- Implemented features for facial detection, image similarity, and content moderation.
- Calculated face-to-image ratio for enhanced image analysis.
- Secured access with robust HTTP basic authentication, protecting sensitive data.
- Optimized API performance through asynchronous request handling.

Indian Institute of Technology, Guwahati — Speech Lab Research Intern　　**Jul 2023 – Aug 2023**

- Developed a gender recognition model using CNN on a vocal dataset, achieving 93% accuracy.
- Preprocessed audio data into spectrograms, designed a CNN, and trained the model using data augmentation and hyperparameter tuning.
- Implemented in Python using Keras, Pandas for data manipulation, and Matplotlib for data visualization.

Projects

Blood Donation and Transfusion App (Frontend)

- Developed a blood donation and transfusion app using React.js, optimizing interactions between donors and recipients.
- Ensured optimal accessibility across various devices, supporting over 10 different screen sizes.
- Integrated Firebase Cloud Messaging for real-time notifications.

Expense Tracker (Fullstack)

- Led the development of an expense tracker app using React for the frontend and Node.js with Express for the backend, integrated with MySQL for data storage.
- Implemented a user-centric design approach, enhancing user satisfaction and usability.
- Integrated essential functionalities such as expense logging, categorization, reporting, and notification settings for comprehensive expense management.

Education

JORHAT ENGINEERING COLLEGE — B. Tech Computer Science and Engineering　　**2021 – 2025**
CGPA: 8.06

COTTON UNIVERSITY — Higher Secondary 10+2 (AHSEC)　　　　　　**2019 – 2021**
Percentage: 93%

Skills

Programming Languages: C, C++, JavaScript, Python, TypeScript

Web Development: HTML, CSS, React.js, Tailwind CSS, Material-UI, Next.js

Backend Development: FastAPI, MySQL, Node.js, Express.js, Django

Tools and Technologies: Git, GitHub, RESTful APIs, Figma

Additional Information

Co-Head of GLUG JEC: Led GNU/Linux Users Group at Jorhat Engineering College, promoting open-source software and Linux systems.