Samprikta Sarkar

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EDUCATION

Vellore Institute Of Technology, Chennai

Aug, 2023 - Present

Bachelor of Technology - Computer Science and Engineering

Chennai, IND

Narayana Junior College

April, 2021 - March, 2023

Telangana State Board of Intermediate Education

Hyderabad, IND

Projects

GreenShere | FastAPI, PostgreSQL, Google Maps API

February, 2025 – Present

- Developing APIs for carbon calculator and eco-tips, using PostgreSQL for storage.
- Built a tracker system for eco-actions, points, and leaderboards with JWT authentication.
- Integrated Google Maps API for locating eco-friendly stores and recycling centers.
- Creating a forum with posts, comments, and voting, plus a contact form for user inquiries.

Cloud-Hosted Virtual Gardening Assistant | Node.js, Firebase, AWS

February, 2025 – Present

- Integrated OpenWeatherMap API to provide weather-based care recommendations for plants.
- Developing backend APIs with Node.js and Express, using Firebase Firestore and AWS DynamoDB for data storage.
- Implementing Firebase Cloud Messaging (FCM) for push notifications and reminders.
- Managed user authentication with Firebase Authentication for secure, personalized plant data access.

Medical Title Generation Using Transformer | Python, Hugging Face Transformers, PyTorch

May 2024

- Developed a model to generate titles from medical research abstracts using transformer-based architectures (T5/BART).
- Preprocessed domain-specific text data and implemented tokenization for model training.
- Fine-tuned using PyTorch Lightning with cross-entropy loss and monitored BLEU scores for evaluation.
- Saved and deployed the trained model on Kaggle for generating accurate and concise medical titles.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, PostgreSQL, JavaScript, HTML/CSS, R, Flutter

Frameworks: React, Node.js, FastAPI, Express, FireBase

Developer Tools: Git, VS Code, Visual Studio **Libraries**: pandas, NumPy, Matplotlib, PyTorch

ACHIEVEMENTS

Smart India Hackathon 2024 | Finalist (Team ID: VITISH070)

August, 2024 - September, 2024

- Selected nationally for developing SaveMyNode, a Linux file recovery tool targeting XFS and BTRFS systems.
- Contributed significantly to research, tool design, and secured wins in both internal university-level presentation and hackathon rounds.

Extra Curriculars

Fine Arts

- Selected nationally for developing SaveMyNode, a Linux file recovery tool targeting XFS and BTRFS systems.
- Won several medals and prizes in state and interschool art competitions.

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