VINAY SADHWANI

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Education

Rajiv Gandhi Institute of Petroleum Technology   **Dec. 2021 – June 2025**
Bachelor of Technology in Information Technology — CPI: 8.34*   *Jais, Amethi*

Relevant Coursework

- Data Structures
- Software Engineering
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Deep Learning
- Computer Networks
- Computer Architecture

Experience

GeeksforGeeks   **Jan 2024 – Present**
Data Science Freelancer   *Remote*
- Working on **Articles** related to impact of **Deep Learning** and **AI** as well as new trends in the field of **Data Science**.

Rajiv Gandhi Institute of Petroleum Technology   **Jan 2024 – Present**
Applied Mathematics Tutor   *Jais, Amethi*
- Teaching **Applied Mathematics** to first year students.

GeeksforGeeks   **Oct 2023 – Jan 2024**
Technical Content Writer Intern   *Remote*
- Authored **Articles** encompassing **Machine Learning** frameworks, libraries, **Data Science** methodologies, in both **Python** and **R** languages.

Projects

OpenGenius | *Transformers, Torch, Numpy, Python*   **January 2024**
- Developed a GPT-like model using the **Transformers** architecture and trained it on the Open Web Text Corpus.
- Implemented techniques in **Natural Language Processing (NLP)** to achieve high-quality text generation.

SoundScape | *fft, Scipy, Scikit-Learn, Numpy, Python*   **November 2023**
- Added realistic audio to **Google Navigation**.
- Manipulated audio amplitude and frequency to create immersive spatial experiences.
- Implemented changes in audio dimensions, resulting in distinct auditory perceptions in each ear when listened to through headphones.

DermAID | *CNN, TensorFlow, Scikit-learn, Python*   **September 2023**
- Developed a **Smart Dermatology Diagnostic Assistant** utilizing Convolutional Neural Networks (CNN) to conduct initial diagnosis of dermatological conditions achieving an accuracy of **98.5%**.
- By analyzing skin manifestations, it aids in early detection and provides preliminary insights for medical professionals and patients.

PACKtrack | *HTML, ReactJs, Tailwind CSS, php, SQL*   **April 2023**
- Created a web platform by harnessing **React** for frontend development, integrating **PHP** and **SQL** for backend operations.
- This innovative system efficiently bridges **Movers and Packers** with their customer base, fostering seamless connections and streamlined interactions through a purpose-built website.

Technical Skills

Languages: Python, Java, C/C++, MATLAB, R, Go
Web Technologies and Frameworks: HTML/CSS, JavaScript, React, Next.js, Flask, Django, TypeScript, PHP
Databases: MySQL, MongoDB
App Development: React Native
Version Control: Git, GitHub
Deep Learning Frameworks: TensorFlow, PyTorch, Keras, Chainer, Caffe, DL4J
ML Architectures: CNN, YOLO, BERT, GPT, LSTM, GAN
Tools: Docker, VS Code, Pycharm, Jupyter, Android Studio

Certifications

- Practical Numerical Methods Using Python – **INDIAN INSTITUTE OF TECHNOLOGY , KANPUR**
- Google Data Analytics Capstone: Complete a Case Study – **Coursera**
- California Institute of Arts: Visual Elements of User Interface Design – **Coursera**
- Python Project for Data Science – **IBM**
- AI Programming with Python – **UDACITY**

Achievements

- Successfully completed **Hacktoberfest 2023** by submitting four pull/merge requests.
- Qualified for **Amazon ML Summer School 2023**.
- Selected for **AWS AI/ML Scholarship 2023**.
- Top 1.84% in **IIT-JEE ADVANCED 2021**.
- Among the 40 students selected for ACM India Summer School 2023 on **Algorithms for Data Science** from applicants across India.