Sanya Shourya

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EDUCATION

Matriculation 2020
May Flower School Patna, India

Intermediate 2020 – 2022
Carmel High School Patna, India

B.Tech in CSE (specialization in AI & ML) 2022 – present
Vellore Institute of Technology Bhopal, India

SKILLS

Programming Languages
- Python
- C++
- Java

Machine Learning
- Data Preprocessing
- Data visualization
- Model Building
- Model evaluation

Operating System
- File management
- Process management
- Memory management
- Storage management

CERTIFICATES

- C++ Udemy
- Privacy and Security in Online Social Media (NPTEL)
- Cognifyz Internship

LANGUAGES

English — Proficient

Hindi — Native/Bilingual

Japanese — Basic

PROJECTS

Plant Diseases Prediction
- **Data Collection and Preprocessing:** Utilized OpenCV for image preprocessing, ensuring high-quality inputs for model training.
- **Machine Learning Model Development:** Extracted features, selected and trained machine learning models using scikit-learn and TensorFlow/Keras.
- **Model Optimization:** Applied transfer learning with pre-trained models and implemented code efficiency techniques for handling large datasets.
- **User Interface and Deployment:** Integrated a user-friendly web interface using Flask or Django and deployed the system for practical use.
- **Performance Evaluation and Analysis:** Developed tools to evaluate model performance and assess the system's impact, incorporating model interpretability techniques.

AI Tutor using Large Language Model (LLMs)
- **Programming Stack:** The project was built using Python, TensorFlow, and Django, combining machine learning with web development.
- **Data Processing and Model Implementation:** Employed data processing techniques and implemented machine learning models to create the AI tutoring system.
- **Backend Development:** Developed the backend server using Django, integrating the AI models with the application’s logic.
- **Frontend Design:** Designed a user-friendly frontend interface to interact with the AI tutor, ensuring seamless user experience.
- **Scalability and Performance:** Implemented optimizations to enhance the system's scalability and performance, making it suitable for broader deployment.