Apurv P Chudasama

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Experience

AI/ML CLUB   **January 2025 - Present**
Lead
- **Coordinated 3+ technical workshops and 2 hands-on coding sessions**, gained experience in planning, organising, while ensuring smooth coordination of teamwork.

IEEE Computer Society Student Chapter   **September 2024 - Present**
Chair Person
- Through the chapter's coordinated activities, it enhanced my ability to organise events and increased member participation by 15%.

CSPIT - CSE   **May 2023 - November 2024**
Technical Coordinator
- Successfully formulated **4 hackathons, 6 expert talks, and 1 large-scale tech fest** (**Cognizance 2024**), attended by 200+ participants.

NullClass Pvt Ltd   **May 2024 - July 2024**
Data Science Intern
- **Collaborated with a 4-member team** to develop a real-world **computer vision project**, improving object detection accuracy by 20%.
- learned more about **computer vision, data analysis**, and **team collaboration** through practical implementation of 2 key project modules.

Education

CSPIT - CHARUSAT   **June 2022 - Present**
Bachelor of Technology in Computer Science   *CGPA: 9.64*

GSHSEB   **May 2020 - May 2022**
HSC in Physics, Chemistry, & Mathematics   *83 %*

GSEB   **May 2020**
SSC   *89 %*

Projects

Lumbar Spine Detection Using YOLOv11 🔗   **Research Project**
- Implemented a **YOLOv11 model** achieving 92% accuracy in detecting lumbar spine anomalies from medical images.
- Skills acquired: Deep Learning, YOLO models, Image Processing, Python.

CHARUSAT Saarthi: Campus Path Navigator Robot 🔗 **December 2024 - Present**
- Received a 70,000 INR grant from iCreate CSPIT CHARUSAT to support development and implementation.
- Core Techstack: Robotics, Embedded Machine Learning, Speech Recognition

Whats-app Chat Analyzer 🔗   **Suggested by Innovative Solutions Ltd.**
- Delivered professional insights into message frequency and sentiment analysis, used by **100+ users**.
- Core Technologies: NumPy, Pandas, Matplotlib, Seaborn, Data Visualization, BERT, NLP

Theft Detection System Using NVIDIA Jetson 🔗   **Endorsed by NullClass**

- Designed a **theft detection model**, (3D-CNN + LSTM) integrated with **NVIDIA Jetson**, reducing false alarms by 15% and providing real-time alerts.
- Integrated Technologies: OpenCV, TensorFlow, Frame Extraction, Feature Extraction

Predictive Maintenance for Aircraft Engines 🔗   **Machine Learning Project**

- Developed an advanced ML model for predicting remaining useful life of aircraft engines with **92% accuracy**, reducing maintenance costs by 30%.
- Technologies Used: Scikit-learn, XGBoost, LightGBM, Time Series Analysis, Ensemble Methods

PneumoGuard: Pneumonia Detection 🔗   **Research Project**

- Developed a pneumonia detection model achieving **87% accuracy**, enhancing diagnostic efficiency by 20%.
- Tech Stack: PyTorch, TensorFlow, VGG16, Random Forest, ResNet, Inception, Vision Transformer, Image Processing.

Skills

Programming Languages: Python, C++, C, SQL, PHP
Technologies/Frameworks: OpenCV, PyTorch, TensorFlow, Keras, Sklearn, Numpy, Pandas, Matplotlib, Seaborn, Grad-CAM, Arduino, Jetson Nano.
CS Fundamentals: Data Structures and Algorithms, Computer Networking, Database Management, Operating System, Mathematics
Tools: Git, GitHub, VS Code, Docker, Jupyter Notebook, PyCharm
Soft Skills: Excelled in navigating challenges, bringing people together to achieve shared goals, flexible thinking, thoughtful communication and creating meaningful social connections.

Achievements

1. **Winner of DoseHack AI Hackathon** (1st Prize: 25,000 INR) arranged by **Dosepeakers Meditab Group of Companies.**

2. **Top 12 Teams in Codesahastra'11 Hackathon organized by DJCSI - Computer Society of India**

3. Conducted a **2-day workshop series on NVIDIA Jetson Nano** across **5 different colleges**, focusing on **AI and edge computing**, engaging 200+ participants in total.

4. Conducted **10 hands-on peer-to-peer learning sessions** on Machine Learning and Deep Learning for the Department of CSE.

Certifications

1. Machine Learning Specialization (Stanford Online)

2. Introduction to Deep Learning (NVIDIA)

3. Getting Started with AI with Nvidia's Jetson Nano (NVIDIA)

4. Fundamentals of Red Hat Linux (Red Hat Academy)

5. Database Management System Certification (NPTEL)

6. Machine Learning Certification (NPTEL, IIT Madras)