Apurv P Chudasama

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Experience

AIML CLUB   **January 2025 - Present**
Lead

- **Coordinated 3+ technical workshops and 2 hands-on coding sessions**, enhancing member engagement and technical skills.
- Gained experience in planning, organizing, and executing initiatives, while ensuring smooth coordination and effective teamwork.

IEEE Computer Society Student Chapter   **September 2024 - Present**
Chair Person

- **Managed 4 industry seminars, 3 technical webinars, and 2 community outreach programs**, increasing member participation by 15%.
- Through the chapter's coordinated activities, it enhanced my ability to communicate effectively, organize events seamlessly, and foster collaboration within teams.

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.
- Gained amplified leadership, event management, and team collaboration skills through multi-disciplinary collaboration.

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%.
- Acquired skills in **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

CHARUSAT Saarthi: Campus Path Navigator Robot   **December 2024 - Present**

- Built a **path navigation robot** with **object detection** and **obstacle avoidance**, achieving 95% accuracy in pathfinding.
- Received a 70,000 INR grant from iCreate CSPIT CHARUSAT to support development and implementation.
- Technologies Used: Robotics, Embedded Machine Learning, Speech Recognition

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

- Designed a **theft detection model**, integrated with **NVIDIA Jetson**, reducing false alarms by 15% and providing real-time alerts.
- Integrated Technologies: OpenCV, TensorFlow, Frame Extraction, feature Extraction

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.

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

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

Languages: Python, C++, C, SQL, PHP
Technologies/Frameworks: OpenCV, PyTorch, TensorFlow, Sklearn, Numpy, Pandas, Github, Docker, Grad-CAM, Arduino, Jetson Nano.
Soft Skills: Excelled in navigating challenges, bringing people together to achieve shared goals, and creating meaningful social connections.

Achievements

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

2. 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.

3. 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)