AAYUSHI PURI

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EDUCATION

- **Bachelor of Engineering in Computer Engineering** **2021-Present**
  Thapar Institute of Engineering and Technology **CGPA:** 7.35/10.00
  Relevant Coursework: Data Structures and Algorithms, Machine Learning, Software Engineering, Data Science, Predictive Analytics, Artificial Intelligence, Operating Systems, Computer Networks, Network Programming, DBMS
- **CBSE Class 12th** **2020-2021**
  D.A.V. Public School, Ludhiana **Grade:** 96.2%

TECHNICAL SKILLS

- **Languages-** C/C++, Python, SQL, R
- **Frameworks-** Scikit-Learn, TensorFlow, OpenCV, PyTorch, MediaPipe, SciPy
- **Data Analysis & Visualization:** Power BI, Tableau, MatplotLib, Pandas, Numpy
- **Software Packages-** Git/Github, Visual Studio, Matlab, MS-Office, Power BI
- **Core Competencies:** Machine Learning**,** Data Structures and Algorithms, OOPs, Data Science, NLP, Computer Vision, DBMS

ROLES OF RESPONSIBILITY

- **Youth United Patiala Chapter** **October 2022- August 2024**
  Content and Documentation Head,
  Developed and executed a comprehensive event feedback system, gathering insights from over 300 participants. Directed a team of over 80 personnel, implementing a peer recognition system that encouraged collaboration and support. Organized multiple events, improving member engagement by 90%.

PROJECTS

- **Brain MRI Image Generation using DCGAN** — *Python, Tensorflow:*
  Generated synthetic brain MRI images and developed a deep learning framework for tumor detection, using DC-GAN for data augmentation and CNN for tumor classification.
- **Crop Yield Prediction** — *Python, TensorFlow, PyTorch:*
  Developed a predictive model using MLP and CNN to forecast crop yields based on agricultural features, showcasing application of machine learning in agriculture.
- **Face Mask Dectector** — *Python, OpenCV:*
  Created a real-time face mask detection system for high-traffic areas. Utilizes OpenCV for face detection and Keras/TensorFlow for mask classification, providing automatic feedback with visual cues (green for mask, red for no mask).
- **LipSyncX** — *Python, PyTorch, Streamlit, OpenCV:*
  Developed a deep learning model for transcribing speech from lip movements in videos, enhancing communication for individuals with hearing impairments. Utilized Transformers and Conv3D for accurate and real-time transcription.

CERTIFICATIONS AND ACHIEVEMENTS

- Advanced Computer Vision with TensorFlow, Generative Deep Learning with TensorFlow (by DeepLearning.AI)
- Data Visualization in R with ggplot2, Exploratory Data Analysis (by Johns Hopkins University)
- Kaggle Dataset and Notebook Expert
- Uploaded a Python package to calculate Topsis score on pypi.org, 15+ projects on NLP and Time Series problems

EXTRA-CURRICULAR ACTIVITIES

Accenture North America Data Analytics and Visualization Job Simulation on Forage **August 2024**
Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture. Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions. Made a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholder.