Diwan Singh Chauhan

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Portfolio :- diwansinghchauhan.github.io/portfolio/

Objective

I have hands-on experience in designing and deploying real-time computer vision systems using deep learning frameworks like TensorFlow and PyTorch. Passionate about to develop innovative AI solutions for facial recognition, object detection, and video analytics. Seeking opportunities to contribute to cutting-edge projects and advance my skills in machine learning and AI-driven applications.

Skills Summary

- **Data Science:** Python, Machine Learning algorithm, Data Analyst, Data Visualization, Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Probability, Statistics, PowerBI, TensorFlow, Keras, PyTorch, Natural Language Processing, Computer Vision, OpenCV, Machine Learning, AI, ML, Analytics, Computer Vision, Deep Learning
- **Soft Skills:** Collaborator, Planner, Problem Solver, Analytical Skills, Multi-tasker, Flexible, Excellent verbal and written communication skills

Experience

- **Machine Learning Intern CERTIFICATE**

  LogicLens | *07/2024 – 12/2024*
  - Designed and implemented real-time computer vision systems for facial recognition, object detection, and video analytics using YOLO and FaceNet models.
  - Developed and optimized deep learning models with TensorFlow, PyTorch, and OpenCV.
  - Collaborated with cross-functional teams to integrate AI models into real-world applications.
  - Gained hands-on experience in video analytics and real-time surveillance systems.

Projects

- **Creating Automatic GIFs from Videos Link**
  - This project automates the process of creating GIFs from video files.
  - It extracts audio, detects silences, transcribes them, and generates high-quality GIFs with text overlays.
  - Powered by Python with libraries like moviepy, pydub, and Whisper for transcription, it simplifies the creation of engaging GIFs from your video content.
  - Perfect for social media, tutorials, and presentations.
- **Book Recommender System Link**
  - This is a machine learning project built using python and flask app.
  - It uses collaborative filtering and popularity-based filtering techniques to provide personalized movie recommendations.
  - The system is deployed on Render, making it easily accessible via a web interface.
  - Users can explore and discover movies based on their preferences and past ratings.
- **Laptop Price Predictor Project Link**
  - Created a tool to predict laptop prices using linear regression.
  - Developed a user-friendly interface with Streamlit to make it easy for users to interact with the predictor.
  - Successfully deployed the app on Streamlit Community Cloud for wider accessibility.
  - Demonstrated skills in machine learning, software development, and cloud deployment through this project.
- **An API based NLP application created using Tkinter and OOP LINK**
  - NLP application constructed with Tkinter and OOP principles.
  - Offers text analysis functionalities through APIs.
  - GUI enables user-friendly interaction with the application.

- Users input text and conduct NLP analysis effortlessly.

- **Created Story on 120 Years of Olympic History on Tableau LINK**
  - Developed comprehensive Tableau visualization of 120 years of Olympic history.
  - Highlighted key events, medal counts, and participating countries.
  - Utilized data analytics techniques for insightful presentation.
  - Employed visualization techniques for engaging and informative display.

Certifications

- Python Core Programming Course (05/2023 - 07/2023) CERTIFICATE
- Expert in Machine Learning & Data Analysis (07/2023 - 12/2023 CERTIFICATE
- Certified Quality Core tools by Quality Hub India (05/2020) CERTIFICATE
- Professional in Product Design in Auto Cad & Solid Woks.

Academic Credentials

- **Master of Technology in Data Science (pursuing)**
  Defence Institute of Advanced Technology, Girinagar, Pune 2023-Present
- **M.Tech. (Metallurgical and Materials Engineering)**
  IIT ROORKEE (2014-16) with 7.088 CGPA.
- **B.Tech. (Mechanical Engineering)**
  Galgotias College of Engineering & Technology (2009-13), Secured 72.74% marks
- **XII (Science)**
  Passed in 2008. Secured 78% marks.
- **X (Science)**
  Passed in 2006. Secured 73% marks.

Personal Details

- **Linguistic Abilities:** English, Hindi
- **Nationality**: Indian
- **Marital status**: Unmarried
- **Address:** Udham Singh Nagar, Uttarakhand