YUKTI DOSHI

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EDUCATION

Master of Science in Computer science and engineering, Expected December 2024 *GPA: 3.8/4*
University at Buffalo, The State University of New York
B. Tech in electronics and telecommunication, June 2023
Dwarkadas J Sanghvi college of engineering, Mumbai *GPA: 8.99/10*

PROFESSIONAL EXPERIENCE

Software Development Intern, Corey Copani, Remote *June 2024 – September 2024*

- Architected and integrated complex ML models into client and internal applications using PyTorch, Keras, TensorFlow, and advanced NLP/Computer Vision techniques, delivering high-precision results.
- Collaborated with cross-functional teams to build 3D interactive mesh models from 2D images and NLP-powered customer service assistants via API integration, boosting operational efficiency by 30%.
- Performed in-depth statistical analysis and data visualization on large datasets, producing customized AI insights and extensive technical documentation.
- Contributed to the strategic AI roadmap of a pre-LLC startup, establishing a solid foundation for scalable growth and competitive market positioning.

Intern Python Developer, Phemesoft Pvt Ltd, Remote *August 2022 - September 2022*

- Engineered an intelligent expense management system with EasyOCR and CNN integration, accelerating financial processing by 30% through automated, high-precision data extraction.
- Led a team of five to design a dynamic, user-friendly interface using Django, HTML, and CSS, boosting engagement by 20% and enabling seamless real-time expense forecasting.
- Enhanced financial reporting accuracy by 15% through advanced data extraction protocols and robust logging frameworks, setting a new benchmark for data integrity and operational efficiency.

TECHNICAL PROJECTS AND PAPERS

Real time Surveillance System

- Engineered a real-time surveillance system using YOLOv8 and DeepSORT, achieving a 92% accuracy rate in object tracking.
- Trained and deployed a MULDE model on UCF crime detection, resulting in an 87% success rate in identifying criminal activities from live video feeds.
- Leveraged Flask API to facilitate live processing and deployment, demonstrating strong skills in machine learning, computer vision, and web development.

Implementation of Applied Machine Learning for Identification of Exoplanets Using NASA's API

- Leveraged Flask API to facilitate live processing and deployment, demonstrating strong skills in machine learning, computer vision, and web development. Read More
- Executed data cleaning and feature extraction on NASA's Kepler Space Mission data, enhancing model accuracy by 12%.
- Compared the efficiency of various algorithms such as Linear Regression, Decision Tree, Random Forest, Naive Bayes, and System vector machine to decide whether a detected extra-terrestrial body is a planet.

Predictive Modeling for Exoplanet Detection using NASA's Kepler Data

- Performed extensive data cleaning, feature extraction, and feature engineering on NASA's Kepler Space Mission dataset, enhancing predictive model accuracy by 12% for exoplanet identification.
- Analyzed multiple machine learning models including Linear Regression, Decision Trees, Random Forests, Naive Bayes, and Support Vector Machines, applying model evaluation techniques to determine the best fit for classification tasks.
- Built a Flask-based API to streamline real-time data prediction, reinforcing knowledge in model deployment, data pipelines, and data-driven decision-making for scientific discovery.

TECHNICAL SKILLS

Skill Category	Skills
Programming	Python, Java, C++, HTML, CSS, R
Databases	MySQL, SQLite, firebase, MongoDB, AWS
Software	AutoCAD, MATLAB, Scilab, Tableau, Keil, Power BI, React, Flask, Hadoop, Django
AI/ML Concepts	NLP, Deep Learning, Machine Learning, Computer Vision, PyTorch, Scikit-learn, TensorFlow, CNN, RNN, LSTM, GRU, Autoencoders, Transformers, LLMs, R-CNN, GenAI tools.
Operating System	Windows, Linux, iOS

ADITIONAL ACTIVITIES

- **IBM AI/ML Specialization:** Completed a 3-year specialization with 8.97/10 CGPA and 31 credits in February 2023.
- **Teaching Assistant:** Assisted with grading and mentorship for CSE 368 (Intro to AI) at the University at Buffalo, guiding students through key AI concepts.