Pakki Venkata Kesari Nandan

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SKILLS

- **Languages**: Java , Python
- **Frameworks**: Numpy , Pandas , Matplotlib , Sckitlearn.
- **Tools/Platforms**: Google Collab, Jupiter Notebook
- **Soft Skills**: Problem-Solving Skills, Communication Skills , Project Management, Adaptability

PROJECTS

Self-Healing Data Pipeline July 2025

- Built a self-healing data pipeline using Python and Airflow that detects, logs, and auto-corrects data anomalies such as schema drift, null values, and format issues.
- Integrated ML models for intelligent imputation and anomaly detection, reducing manual intervention and improving pipeline reliability.
- Implemented robust data validation with Great Expectations and developed fallback mechanisms to maintain consistency and prevent pipeline failure.

Tech: Machine Learning, Python, Data Validation

AI-Based Smart Factory Safety Monitoring (YOLOv8) October 2024

- Developed a real-time factory safety monitoring application using **YOLOv8**, enabling accurate detection of workers, PPE (helmet, vest) compliance, and hazardous situations.
- Trained a custom model on Roboflow, achieving **92% mAP** for helmet and vest detection.
- Integrated **OpenCV** for live camera stream processing, enabling instant identification of safety violations and significantly improving response time.
- Optimized the model for stable deployment by refining class thresholds, improving inference speed, and enhancing overall system accuracy.

Tech: Python, YOLOv8, OpenCV, Roboflow, Deep Learning, Computer Vision

Car Price Prediction Using Linear Regression August 2024

- Developed a machine learning model to predict car prices based on various features using Linear Regression.
- Collected and preprocessed data from sources like Kaggle and Car Dekho.
- Built an interactive web application using Flask/Streamlit for real-time price predictions.
- Achieved an accuracy of 87% on real time data.

Tech: Linear Regression, Python, Jupiter NoteBook, Numpy Pandas

CERTIFICATES

- Complete Machine Learning & Data Science Program – (self placed) by GFG December 2024
- Great Learning: Introduction to machine learning June 2024
- Google Cloud: Coursera Introduction to Generative AI May 2024

ACHIEVEMENTS

- **Secured Global Rank 783rd:** January 2025
  Among 21k+ participants in Leetcode Biweekly Contest 96
- **One among Dean's top 10 % students at University:** January 2025
  For good academic performance and extra-curricular activities at University
- **Secured 3rd rank in the Hackathon: Hack AI Hackathon:** December 2024
  For good academic performance and extra-curricular activities at University.
- **HackerRank 3 Star Coder** September 2024
  Achieved 3 Stars in HackerRank.

EDUCATION

- **Lovely Professional University** Punjab, India
  Bachelor of Technology - Computer Science and Engineering: ***7.4*** *Since August 2022*
- **SRI VISWA COLLEGE** Dwaraka Nagar, Vizag
  Intermediate; ***Percentage: 82%*** *April 2020 - March 2022*
- **SRI CHAITANYA SCHOOL** Ram nagar, Vizag
  Matriculation; ***Percentage: 89%*** *April 2019 - March 2020*