Sai Dushyanth Pandiri

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Profile Summary

Application Engineer with experience in data integration, workflow automation, and applied machine learning. Skilled in data processing, modeling, and problem-solving, with a record of delivering solutions that improve team efficiency. Active professional network with 19K+ LinkedIn followers, engaging in technical discussions and knowledge sharing.

Experience

- **Strada** Jul 2024 – Present
  Application Engineer *Hyderabad, India*
  - Led the end-to-end data integration and implementation of a proprietary ETL platform, "Strada Exchange Platform," for high-profile global clients, including **Philip Morris international , Syensqo , Sedwick** successfully deploying projects across 10+ countries.
  - Designed and implemented complex data mappings and transformation rules to ensure accurate and consistent data flow from HRIS systems (e.g., Workday) to payroll systems (e.g., SAP).
  - Managed and monitored live data pipelines supporting over 2,000 client users each across multiple concurrent implementations, ensuring high availability and data integrity for critical HR and payroll operations
  - Monitored system health and debugged data flow issues using **Azure Logs, Kubernetes** demonstrating proficiency in pipeline observability and incident response.
  - Build **workflow integrations** in **Power Automate** to streamline repetitive processes.
  - Created a **Dynamic Data Validation & Reporting Tool** in Python — automating checks, filters, and report naming, packaged as an executable, **saving significant reporting hours for the team**.

Internships

- **Teknopoint/Dept** Jun 2023 – Aug 2023
  Data Analyst Intern *Remote*
  - Used **Adobe Analytical Workspace** to uncover data trends and user behavior patterns.
  - Processed and structured raw data to support business insights.
  - Collaborated with stakeholders to improve data visualization and reporting accuracy.

- **VNR VJIET** Jul 2022 – Oct 2022
  Research Intern *Hyderabad, India*
  - **Main author** of the paper *"Augmenting Exoplanet Detection: A Hybrid Model Integrating Machine Learning and Synthetic Oversampling"* (Under review).
  - Performed **data preprocessing, statistical analysis, and FFT transformations** on Kepler light curve datasets.
  - Addressed severe class imbalance with **SMOTE-based oversampling** to generate high-quality synthetic samples.
  - Designed and implemented a **hybrid CNN-LSTM model** to capture both spatial and temporal features, achieving **96.2% detection accuracy**.

Education

- **VNRVJIET** 2020 – 2024
  B.Tech in Computer Science and Engineering; CGPA:8.3 *Hyderabad, India*

Projects

- **Air Quality Analysis** 2023
  Machine Learning & Web Development
  - Processed real-time atmospheric gas concentration data and applied regression models to predict relative humidity.
  - Utilized **scikit-learn** for model training and evaluation, incorporating cross-validation to enhance predictive performance.
  - Developed an interactive web application using **Streamlit** for monitoring humidity levels and integrated control logic for Air Conditioners to automatically adjust based on predictions.

- **Meteoroid Detection** 2023
  Data Science & Predictive Modeling
  - Applied statistical modeling and spatial analysis to predict the landing zones of chondrites on Earth.
  - Collected and cleaned astronomical datasets, performing outlier removal and feature engineering for improved accuracy.
  - Built classification models to identify meteorite composition and potential origin using supervised ML algorithms.
  - Deployed a public-facing website providing detailed meteoroid information, analysis, and visualizations.

- **Heart Disease Prediction** 2022
  Machine Learning
  - Analyzed patient health metrics to identify key predictors of heart disease using statistical correlation and feature selection.
  - Implemented classification models including Logistic Regression, Random Forest, and SVM to estimate risk of heart attack.
  - Optimized hyperparameters and evaluated models using ROC-AUC, precision, recall, and F1-score metrics.
  - Delivered an interpretable solution that could assist healthcare providers in risk assessment.

Leadership & Activities

- **Google Developer Student Club** Jul 2023 -Jul 2024
  Lead *Hyderabad, India*
  - Directed multi-domain teams, organized large-scale technical and community events, and collaborated with multiple institutions to expand reach.
  - Recognized for impactful leadership and fostering innovation within the student tech community. Certificate Link

Achievements

- Selected as **Campus Lead by Google** for the Google Developer Student Club program.
- Recognized in team for creating a **Dynamic Data Validation & Reporting Tool** that significantly reduced manual reporting effort.
- Built and maintained a professional network of **19K+ LinkedIn followers** by actively sharing insights, projects, and resources.

Skills

- **Cloud & Data Tools**: Azure Data Factory, Azure SQL, Adobe Analytical Workspace
- **Automation**: Power Automate, n8n Workflow Automation
- **Programming**: Python, SQL
- **Data Science**: Data Processing & Analysis, Feature engineering,Statistical Data Analysis , Machine Learning
- **Core Competencies**: Problem Solving, Leadership, Team Management, Public Speaking, Decision Making

Publications

- *"Augmenting Exoplanet Detection: A Hybrid Model Integrating Machine Learning and Synthetic Oversampling"* — Under review.