Rushikesh Phadtare (ML Engineer)

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https://github.com/Rushi-AIML

PROFESSIONAL SUMMARY

Experienced Detail-oriented and results-driven Machine Learning Engineer with 2 years of experience in automating data workflows, developing scalable reporting systems, and optimizing KPI performance analysis in the telecom domain. Proven expertise in Python-based data engineering, ETL pipeline development, and dashboard automation, with a strong foundation in preparing high-quality datasets for ML applications. Skilled in integrating diverse data sources, applying advanced data wrangling techniques, and collaborating cross-functionally to standardize insights across business units. Adept at aligning business intelligence goals with predictive analytics initiatives such as anomaly detection and performance forecasting.

WORK EXPERIENCE

Reliance Jio   **Dec 2022 – July 2024**

ML Engineer   Ghansoli, Navi Mumbai

- Automated KPI data pipelines using Python, reducing manual effort by 80% and streamlining ML-based anomaly detection.
- Developed scalable infrastructure for Pan-India and VVIP site performance tracking and integrated it into ML workflows.
- Designed and maintained ETL pipelines and dashboards for hourly, daily, and quarterly KPI data to support real-time and historical trend analysis.
- Unified disparate data formats (CSV, Excel, SQL) into cohesive schemas, enhancing feature accessibility for ML models.
- Enabled session-based report generation with secure, user-specific access control.
- Collaborated with stakeholders to standardize reporting formats and streamline labeling pipelines for supervised ML tasks.
- Built modular Python tools that reduced data preprocessing time by 60%, speeding up ML model deployment.
- Applied advanced data wrangling (normalization, aggregation, filtering) to improve input quality and model accuracy.

PROJECT EXPERIENCE & TECHNICAL EXPERTISE

Machine Learning & Deep Learning
- Completed ML projects such as house price prediction and loan status classification.
- Strong understanding of supervised, unsupervised, and deep learning models (including CNNs, RNNs, SVMs, Decision Trees).
- Proficient in ML frameworks: Scikit-learn, TensorFlow, PyTorch, Keras.
- Experience in model training, evaluation, optimization, and hyperparameter tuning.
- Skilled in feature engineering, data cleaning, handling overfitting, regularization, and cross-validation.
- Basic knowledge of natural language processing, computer vision, or generative techniques.

Natural Language Processing (NLP)
- Expertise in text preprocessing (tokenization, stemming, lemmatization).
- Built models for text classification, sentiment analysis, and NER.
- Familiar with TF-IDF, Word2Vec, BERT embeddings and transfer learning for NLP tasks.

Computer Vision
- Developed and trained CNNs for object detection and classification using YOLO, ResNet, EfficientNet.
- Hands-on with OpenCV for image filtering, segmentation, morphological ops, and histogram equalization.
- Experience with real-time image processing for video streams and surveillance feeds.

Key Achievements

- Reduced manual reporting effort by 90% via automation and template-based solutions.
- Enhanced reporting consistency and accuracy across teams.
- Enabled granular-level KPI insights, improving decision-making capabilities.
- Integrated multi-source data pipelines, ensuring seamless and error-free ML data flow.
- Strong problem-solving skills, eagerness to learn, and a collaborative mindset.

SKILLS

- **Programming Languages/Frameworks**: Machine Learning, Deep Learning, Python, Image processing, Natural Language Processing, Excel, HTML, CSS, Flask, Streamlit.
- **Machine Learning/Deep Learning**: Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, TensorFlow, Keras.
- **Data Science**: Data Visualization (Tableau, Power Bi), Data Warehousing, Data Wrangling and Cleaning, Model Deployment.
- **Database Management**: MySQL.
- **Tools & Platforms:** Jupyter Notebook, Google Colab, Anaconda.

EDUCATION

Terna Engineering College, Nerul (Navi Mumbai)   Aug 2018 – May 2022
Bachelor of Engineering- 7.0CGPA   Navi Mumbai