RAHUL JAIN

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Professional Summary

Innovative and results-oriented Lead Data Scientist with over 9 years of advanced experience in deep learning and computer vision using Python. A strong passion for implementing data-driven solutions that consistently deliver impactful business results. Demonstrated success in spearheading innovative solutions and driving improvements across functions, thereby facilitating data-driven business transformation.

Professional Skills

Technical Proficiency :

- Programming: Proficient in Python (Scikit-learn, Pandas, Numpy, Matplotlib, pyplot, Scipy, PyTorch, TensorFlow, Keras), Spark, Hive, Hadoop.
- Development Tools: Experienced with GitHub, Jupyter Hub, RStudio, Vim, Linux/Unix, Mac, Windows.
- Deployment Technologies: Skilled in Docker, Jenkins, Helm, Kubernetes, AWS, Azure.

Core Competencies :

- Machine Learning: Adept in applying machine learning techniques to solve complex problems.
- Data Analysis: Experienced in data analysis, data cleaning, and deriving actionable insights.
- Product Development: Contributed to the development of data-driven products and solutions.
- Research: Skilled in conducting research to drive data-driven decisions.
- Cloud Computing: Familiar with cloud computing platforms, including AWS and Azure.
- Data Modeling: Proficient in creating and optimizing data models for various applications.

Experience

Lead Data Scientist, 03/2016 to Current

Rockwell Automation (Knowledge Lens) – Thousand Oaks, CA

Accountable for development and deployment of data science models as products, with focus on enhancing business decision-making. Also, implemented model automation infrastructures to drive cost efficiencies in deployment processes.

- **Leadership and Project Management** : Guided a cross-functional team of data scientists and engineers in the development and deployment of a tailored workplace safety solution for the chemical industry in India.

- **Process Optimization** : Successfully established an automated model pipeline, encompassing data preprocessing, predictive model scoring, validation, and data population. This initiative resulted in a remarkable 50% reduction in processing time and a 60% decrease in resource usage.
- **Scalable Framework** : Designed and implemented a highly scalable framework for vision analytics video streaming, optimizing hardware resources to run efficiently on minimal hardware footprint.
- **Mission-Critical Compliance** : Developed a mission-critical flare monitoring system, ensuring regulatory compliance for Aarti Industries, India.
- **Defect Detection** : Spearheaded the creation of vision-based pipeline for defect detection, catering to the needs of a major FMCG (Fast Moving Consumer Goods) player in the food industry.
- **Innovative Solutions** : Leading a team of data scientists in the creation of a work safety and gas detection solution for HPCL (Hindustan Petroleum Corporation Limited) refinery, operating successfully under a Proof of Concept (POC).
- **Custom Camera Implementation** : Owned the pilot run of a custom camera at a cement manufacturing facility, addressing their unique use case.
- **High-Accuracy System** : Engineered a flagship system achieving over 99% count accuracy, leveraging custom camera technology for precise counting of cement bags.
- Engaged in numerous intricate ETL (Extract, Transform, Load) projects involving major pharmaceutical companies.

Tools : Python, API (Flask, Fast), Gitlab, CI/CD, Docker, AWS, Azure

Programmer Analyst, 07/2014 to 02/2016
Cognizant Technologies – Pune, Maharashtra
Professional Experience :
- Proficient in crafting SQL queries and developing PL/SQL code to generate and verify data reports.
- Methodical analysis of request requirements and associated rules for precise execution.
- Diligently execute tasks and validate data to ensure accuracy and completeness.
- Effective collaboration with Business Analysts and development teams to facilitate project execution and prompt issue resolution.

Education

Bachelor of Technology: Computer Science, 06/2014
Lovely Professional University - India

Certifications

- Azure Data Scientist Associate
- Databricks Certified Associate Developer