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Rahul Jain

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.

Experience

Rockwell Automation (Knowledge Lens) - Lead Data Scientist

Thousand Oaks, CA

03/2016 - Current

Accountable for the development and productionalization of data science models as products, with a 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 a prominent petrochemical giant in the Middle East.
- **Defect Detection:** Spearheaded the creation of a vision-based pipeline for defect detection, catering to the needs of a major FMCG player in the food industry.
- **Innovative Solutions:** Currently leading a team of data scientists in the creation of a work safety and gas detection solution for India's largest refinery, operating successfully under a Proof of Concept (POC).

✉ rahuljain809@gmail.com

☎ 8054180514

📍 Thousand Oaks, CA 91320

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, JupyterHu, 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.
- **Analytical Skills:** Possess strong analytical thinking and problem-solving abilities.
- **Data Visualization:** Proficient in creating compelling data visualizations to convey insights.
- **Planning:** Effective at project planning, management, and execution.
- **Data Science:** Well-versed in data science methodologies and best practices.

- **Custom Camera Implementation:** Owned the pilot run of a custom camera in 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

Cognizant Technologies - Programmer Analyst

Pune, Maharashtra

07/2014 - 02/2016

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.

- **Statistics:** Proficient in statistical analysis and hypothesis testing.
- **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.

Education

06/2014

Lovely Professional University

Jalandhar, Punjab

Bachelor of Technology: Computer Science

Certifications

Azure Data Scientist Associate