Rujeet Jahagirdar

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Objective

Results-driven software engineer with a Master's in Computer Science and 2+ years in data engineering. Seeking a challenging role in Software Engineering. Expertise in cloud computing, distributed systems, and machine learning. Proven track record in ETL pipeline design, optimizing databases, and leveraging emerging technologies. Eager to lead innovation in industry, collaborate cross-functionally, and contribute to next-gen solutions. Strong in Python, Apache Spark, Docker, with experience in Microsoft Azure. Committed to continuous learning and fostering knowledge-sharing.

Education

Master of Science in Computer Science (3.625/4.0) August 2022 - May 2024
University of Texas at Arlington *Arlington, TX*

Bachelor of Engineering in Computer Science and Engineering June 2015 - June 2019
Swami Ramanand Teerth Marathwada University *Nanded, India*

Technical Skills

Programming Languages/Tools: Python, SQL, Django, C++, Java, React, HTML, CSS, OpenCV
Technical Skills: Algorithms, Data Structures, OOP (Object Oriented Programming), Deep Learning
Big Data/ML tools: Apache Spark, Apache Airflow, Pandas, NumPy, SparkSQL, ETL
Relational Databases: MySQL, PostgreSQL DB
Cloud/Other Platforms: Microsoft Azure, Linux, Docker, CI/CD

Professional Experience

System Engineer (Data Engineer) June, 2020 – March 2022
Tata Consultancy Services *Pune, India*

- Created ETL pipelines using Python and Spark, securely storing data for approximately 3.6 million customers without compromising pipeline performance..
- Fostered robust collaboration and communication within a 10-member cross-functional team, achieving collective objectives and consistently delivering exceptional outcomes.
- Showcased strong innovation by creating an automated solution for a labor-intensive task, driving a remarkable 30% decrease in manual effort and boosting overall efficiency by 20%.

Assistant System Engineer June, 2019 – June, 2020
Tata Consultancy Services *Pune, India*

- Accelerated project completion by conducting detailed analysis of project requirements and delivering comprehensive documentation, leading to 20% reduction in project timeline.
- Performed an extensive analysis and achieved a deep understanding of a complex, custom-built ETL pipeline spanning over 5000 lines of code.

Projects

Personalized Task Manager: A Django-based Full-stack To-Do List Application September 2023
Django, Python, HTML, CSS, OOPs

- Integrated personalized user authentication, intuitive CRUD operations for task management, and optimized database design, ensuring an efficient and user-friendly experience.
- Leveraged Django's best practices to boost application responsiveness across devices, while implementing security measures against common vulnerabilities, guaranteeing user data integrity and swift navigation.

Database Design for a Startup Store February 2023
MySQL, Schema Design, Relational Database, HTML, CSS, JS

- Designed and implemented a relational database for Sprout store startup by collecting user requirements and designing Entity-relationship and schema diagrams to reduce development time by 15%.
- Optimized the database performance by indexing key columns and applying normalization rules.
- Built a user-friendly web-based interface using HTML, CSS, PHP, and JavaScript, enabling seamless CRUD operations on a relational database and enhancing database accessibility for end-users.

Text Summarization using Transfer Learning April 2023
Python, HuggingFace, Transformers, BART-BASE-CNN

- Fine-tuned the bart-base-cnn pretrained model on a large Gigaword dataset sourced from Hugging Face for text summarization, enhancing its performance and accuracy.
- Leveraged advanced natural language processing techniques to optimize the model's summarization capabilities, resulting in improved text summarization outcomes.

Book Segmentation using Segment Anything Model April 2023
Python, OpenCV, Deep Learning

- Developed a computer vision system for book segmentation and text recognition from bookshelf images, utilizing the Hough transform for book spine line detection and transformer-based models for optical character recognition (OCR).
- Collected and annotated a diverse dataset of bookshelf images, implemented preprocessing techniques, and evaluated the system's performance using evaluation metrics such as precision, recall, and F1-score for book spine line detection, and intersection over union (IoU) and pixel accuracy for book segmentation.