Pratikshit Singh Kushwaha

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SUMMARY

Data Engineer with combined experience across data engineering, software development, and full-stack automation. Currently specializing in building scalable ETL pipelines and analytics solutions using PySpark, SQL, Python, Databricks and cloud technologies. Skilled in end-to-end software development, performance tuning, and cross-team collaboration to deliver robust and maintainable solutions.

WORK EXPERIENCE

INFOSYS LIMITED   Mysore, India
Digital Specialist Engineer (Data Engineer)   Nov 2024 – Present

- Engineered a scalable Medallion Lakehouse Architecture on Databricks, building fault-tolerant pipelines to ingest data from diverse sources (SQL Servers, APIs, FTP, Smartsheets, SharePoint) and file formats into structured, analytics-ready datasets.
- Developed optimized Python/PySpark logic to execute complex transformations, cleaning routines, and multi-table joins, while leveraging Delta Lake capabilities to implement efficient load patterns that reduced pipeline runtimes and storage overhead.
- Performed deep performance tuning - optimizing partitions, caching strategies, broadcast joins, and Z-Ordering to significantly improve cluster configuration and processing efficiency across large datasets.
- Led requirement analysis with product owners, data analysts, and stakeholders to convert functional needs into technical data models, ensuring production stability through rigorous testing, monitoring, logging, and CI/CD driven deployment practices.

NAGARRO SOFTWARE PVT. LTD.   India, Remote
Associate Software Engineer   Mar 2023 – Aug 2023

- Developed Python-based automation workflows where the system automated contract and timesheet management, reducing manual errors by approximately 40%.
- Integrated Angular-based user interfaces with backend services to streamline data entry for users.
- Managed data using and wrote optimized SQL queries to generate backend reports and perform historical data comparisons.
- Built custom scripts to extract, transform, and validate employee logs before database insertion.

DUOGEEKS   India, Remote
Junior Web Developer   Jan 2020 – Mar 2023

- Transitioned from static layouts to building dynamic user interfaces using React.js and JavaScript. Gained hands-on experience with component-based architecture and state management.
- Engineered mobile-first, responsive web applications using CSS3, HTML5, and Bootstrap. Focused on cross-browser compatibility and optimizing DOM manipulation for smoother rendering on varying screen sizes.
- Learned to optimize web performance by minimizing HTTP requests and compressing assets, achieving faster load times and better SEO rankings for client platforms.
- Worked directly with clients to gather requirements and iteratively improve UI features, developing an early understanding of the software development lifecycle (SDLC) and user-centric design.

SKILLS

Big Data & Distributed Computing: PySpark, Spark SQL, Spark Streaming, Databricks, Delta Lake
Cloud & ETL: Azure Data Factory, Azure, AWS, REST APIs
Programming Languages: Python, JavaScript, Shell Scripting (UNIX), Java
Databases & Warehousing: SQL, NoSQL, Data Warehousing Concepts, Dimensional Modeling.
Web Development & Frameworks: React.js, Angular, Node.js, HTML5, CSS3
DevOps & Tools: Git (Version Control), Selenium WebDriver, CI/CD Concepts, Agile/Scrum Methodologies.
Core Competencies: Data Structures & Algorithms, Data Cleaning & Transformation, REST API Integration.

EDUCATION

DR. APJ ABDUL KALAM TECHNICAL UNIVERSITY
Bachelor of Technology

Lucknow, UP
Aug 2019 - Aug 2023

Major in **Computer Science & Engineering**
Cumulative GPA: 7.79/10.0

KENDRIYA VIDYALAYA NO.1 AFS CHAKERI
Intermediate (Class XII)

Kanpur, UP
2019

Percentage: 84.40%

KENDRIYA VIDYALAYA NO.1 AFS CHAKERI
Secondary School (Class X)

Kanpur, UP
2017

Cumulative GPA: 10.0/10.0

CERTIFICATIONS & ACHIEVEMENTS

- **Databricks Certified Data Engineer Associate**
- **Microsoft Certified: Azure Data Fundamentals [DP-900]**
- **Oracle Data Platform 2025 Certified Foundations Associate**
- **Infosys Certified Professional in various Technologies**
- **Infosys RISE INSTA AWARD winner for exceptional performance**

UNIVERSITY PROJECTS

PERSONALIZED MOVIE RECOMMENDATION SYSTEM
- Developed and tuned Collaborative Filtering and Content-Based algorithms to predict user preferences, utilizing efficient matrix factorization techniques.
- Integrated a Natural Language Processing (NLP) module to scrape and analyze user reviews, enriching the dataset for improved recommendation accuracy.

AUTOMATED SOCIAL MEDIA DATA EXTRACTION TOOL
- Architected a robust Java-based tool using Selenium WebDriver to automate the extraction of unstructured social media data (Facebook interactions) at scale.
- Applied advanced Object-Oriented Programming principles and dynamic XPath strategies to handle DOM changes, ensuring 99% success rate in data retrieval.
- Developed a secure module for retrieving verification URLs via Gmail APIs, automating the authentication flow for uninterrupted data collection.

STRENGTHS & INTERPERSONAL SKILLS

- **Strong debugging and analytical skills**
- **Effective communication and documentation ability**
- **Adaptability, teamwork, and proactive problem-solving**
- **Ownership mindset and continuous learning attitude**