
PRATIK SHINDE

DATA ENGINEER

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PROFESSIONAL SUMMARY

Backend & Data Engineer with 5+ years of experience in scalable data platforms, distributed systems, and cloud-native architectures. Strong expertise in Python, SQL, Apache Spark, Databricks, and Delta Lake, building optimized ETL/ELT pipelines and high-performance backend systems. Experienced in AI/ML-driven predictive modeling, automation modules, and analytics-based validation. Proficient in Django REST APIs, CI/CD (Azure DevOps, GitHub Actions), and scripting (Python, Bash, PowerShell) with a focus on performance tuning and production monitoring to meet SLA requirements.

WORK HISTORY

Data Engineer (Azure), 07/2023 - Current

Atlas Copco Private Limited – Pune, India

- Designed and optimized Azure Data Factory and Databricks pipelines for manufacturing data systems, improving governed data availability by 40%, and reducing query runtime by 35% through performance tuning and data optimization.
- Developed ML-based predictive models on IoT telemetry data to generate real-time operational insights, reducing decision latency by 50%.
- Built automated image processing solutions using Python and machine learning techniques, decreasing manual validation effort by 60%, and improving accuracy.
- Performed Spark executor-level tuning, workload benchmarking, and cluster optimization to enhance reliability, scalability, and SLA compliance.
- Led root cause analysis (RCA) for critical production incidents, reducing recurring issues by 45%, and strengthening monitoring and alerting frameworks.

Senior Software Developer (Python AI), 05/2022 - 07/2023

Thinkitive Technologies – Pune, India

- Developed Django-based backend platforms and REST APIs, improving application performance by 35% through query optimization and modular design.
- Integrated AI-driven image generation pipelines (Stable Diffusion) within scalable cloud environments, ensuring efficient compute utilization, and workload isolation using containerized deployments.
- Created a reusable Python pip package for automated load and performance testing, leveraging Python and shell scripting to automate benchmarking of data-heavy applications, and streamline performance validation workflows.
- Containerized and deployed services using Docker and Nginx with CI/CD automation, increasing deployment frequency by 45%, and reducing rollback rates below 2%.
- Applied Infrastructure as Code (Terraform) to provision AWS EC2, networking, and storage resources in a secure, repeatable manner.
- Delivered high-quality code on time by effectively managing project timelines and prioritizing tasks accordingly.

Software Engineer (Python Developer), 10/2019 - 05/2022

Dynamisch IT – Pune, India

- Developed Python, Django, and JavaScript-based services to support data ingestion, transformation, and analytics workflows, improving processing efficiency by 27%, and reducing integration defects by 19%.
- Automated operational processes using PowerShell, Python, and Bash scripting, streamlining environment configuration, and reducing manual overhead by 41%.
- Optimized large-scale datasets through advanced query tuning and application-level enhancements, increasing system reliability by 23%, and improving response times by 31%.
- Delivered projects ahead of deadlines by effectively prioritizing tasks, improving sprint throughput by 18%, and reducing backlog spillover by 26%.
- Analyzed and validated technical solutions against customer requirements, increasing implementation accuracy by 29%, and reducing post-deployment change requests by 22%.

PROFESSIONAL DEVELOPMENT

- I am currently studying advanced AI Engineering concepts (model architectures, LLM systems, MLOps, and production AI design patterns).
- Maintaining structured study notes and implementation exercises on [GitHub](#) (check latest month branch)

EDUCATION

Bachelor of Engineering: Computer Science, 07/2019

Savitribai Phule Pune University - Pune, India

CERTIFICATIONS

Artificial Intelligence and Machine Learning, DRDO

TECHNICAL SKILLS

- Python (Advanced), Core Java, Shell Scripting; OOP, debugging, performance optimization.
 - Django (REST APIs), FastAPI; scalable backend service development.
 - PostgreSQL, MySQL, MongoDB, Delta Lake.
 - Azure (Databricks, ADLS, ADF), AWS (working knowledge); cloud-native architecture.
 - Stable Diffusion pipelines, predictive modeling, AI-driven automation modules.
 - Operating systems, distributed systems, scalability, root cause analysis, production support.
 - Docker, Git, Linux, CI/CD (Azure DevOps), Terraform.
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