

# Kumar Sabharinath Nandipati

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## Summary

**Data Engineer and IT professional** with over **5 years of experience** in building and maintaining data pipelines, managing cloud systems, and providing IT support. Focused on improving workflows, ensuring data accuracy, and resolving technical issues. Experienced in working with teams to maintain reliable systems and support day-to-day operations effectively.

## Professional Experience

### Dell Technologies, USA

Mar 2025 – Current

#### Data Engineer

- Designed and maintained ETL pipelines using Python, PySpark, and Apache Spark, processing over 5 TB of structured and unstructured data monthly for analytics.
- Cleaned, transformed, and validated data using SQL, Pandas, and NumPy, improving data accuracy by 20%, enabling reliable reporting and supporting business decision-making.
- Managed AWS S3, Redshift, and Snowflake data storage, optimized schemas, partitioning, and indexing, reducing query runtimes by 30% for internal analytics workflows.
- Built real-time streaming workflows with Apache Kafka and Kinesis, processing 100,000+ events per hour, enabling near-instant operational insights for business reporting.
- Automated and monitored data workflows with Airflow, Jenkins, and Cron jobs, decreasing manual intervention by 40% while ensuring continuous pipeline reliability and performance.

### Sodexo, USA

Aug 2024 – Feb 2025

#### IT Support Specialist

- Delivered first-line IT support for 200+ users, resolving meeting room AV equipment issues and cutting incident resolution time from 2 hours to 30 minutes.
- Resolved hardware issues on 80+ printers, scanners, and laptops, reducing device-related downtime by 40% and improving daily operational efficiency across supported departments.
- Monitored and logged 300+ user support tickets monthly, achieving a 92% first-contact resolution rate through proactive troubleshooting and consistent follow-ups with end users.
- Coordinated with technical teams on daily IT operations, improving cross-team task completion time from 3 days to 1 day through clear escalation workflows.
- Documented 40+ recurring support issues and fixes, reducing duplicate tickets by 35% and enabling faster onboarding for new support staff in the facility.

### Infosys Ltd, India

Mar 2020 - Aug 2024

#### System Engineer

- Delivered desktop support to over 150 users, resolving OS issues and software installations, which reduced average ticket resolution time from 3 hours to 45 minutes.
- Configured and maintained 120+ network printers and multifunction devices, cutting device-related support tickets by 35% through standardized setup and scheduled preventive maintenance practices.
- Resolved escalated printer hardware and connectivity issues for 10+ business units, improving overall print infrastructure uptime from 88% to 97% across supported departments.
- Supported SAP S/4HANA SD module, coordinating with MM and FI teams, which decreased cross-functional ticket backlog by 40% through faster root cause identification.
- Performed root cause analysis on recurring system incidents, reducing repeat user tickets by 30% and boosting overall customer satisfaction scores from 72% to 89%.
- Authored 50+ knowledge base articles on recurring incidents, accelerating first-level support resolution by 45% and reducing dependency on escalations from Tier 2 support teams.

## Skills

**Programming & Scripting:** Python, Java, Bash, SQL, PySpark, Scala

**Data Processing & ETL:** Apache Spark, Apache Airflow, Pandas, NumPy, ETL pipeline development, Data ingestion frameworks, Data cleansing and transformation

**Databases & Storage:** MySQL, PostgreSQL, MongoDB, Cassandra, AWS S3, Amazon RDS, Snowflake, Google BigQuery, Azure Data Lake

**Cloud & DevOps:** AWS (EC2, S3, Lambda, Glue, EMR, IAM, CloudWatch), Jenkins, Git, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD pipelines

**Data Warehousing & Modeling:** DBT, Amazon Redshift, Snowflake, Star/Snowflake Schema Design, OLAP/OLTP systems, Data Lakes, Data Marts, Data Vault modeling

**Big Data & Streaming:** Hadoop, Apache Hive, Apache Pig, Apache Kafka, Amazon Kinesis, Spark Streaming, Flink

**Data Visualization & Reporting:** Power BI, Tableau, Matplotlib, Seaborn, Plotly

**Workflow & Automation:** ServiceNow, Linux shell scripting, Cron jobs, Scheduling and orchestration with Airflow and Jenkins

**Networking & Systems:** TCP/IP, DNS, DHCP, VPN, Windows Server, Linux Administration, System performance tuning, Log monitoring

**Tools & Platforms:** VMware, SAP S/4HANA (SD, MM), Jira, Confluence, WebEx/Zoom/Teams integration

**Version Control & Collaboration:** Git, GitHub, GitLab, Bitbucket

## Projects

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### Forest Fire Prediction Using Machine Learning | Python, Random Forest, SVM

- Built machine learning models with Random Forest and SVM to predict forest fire occurrence, improving early warning accuracy and minimizing false positives.
- Cleaned and processed large geospatial datasets, then visualized high-risk fire zones on interactive maps to support proactive resource allocation and emergency planning

### Online Crime Reporting System | Java, MySQL

- Developed a secure web application that allowed citizens to file crime reports online and track case status, improving accessibility and response times.
- Implemented role-based access with a MySQL backend to ensure data confidentiality for law enforcement while enabling real-time retrieval and reporting of case information.

## Education

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### Master of Science in Computer Science

University of Texas at Tyler, United States

May 2025

### Bachelor of Technology in Computer Science and Engineering

Vignan's Lara Institute of Technology and Science, India

Sep 2021

## Certificates

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### CompTIA A+ (In Progress)

SAP Certified Application Associate – S/4HANA Sales (SD)

SAP Certified Application Associate – S/4HANA Materials Management (MM)

AWS Certified Cloud Practitioner