AKASH PONNAM

Data Analyst

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SUMMARY

- Results-driven Data Analyst with 2+ years of experience transforming complex data into actionable insights, leveraging Python and SQL to automate workflows, build 3+ scalable ETL pipelines, and extract data using Flask/Django for backend integrations across cloud and on-premise environments.
- Proficient in Python, Tableau, Excel, SQL, and Oracle, enabling robust data management, reporting automation, and interactive visualization.
- Skilled at modernizing legacy systems through AWS migration, engineering scalable data pipelines, and deploying CNN/LSTM models to boost time-series forecasting precision in business use cases.
- Proven expertise in processing large-scale datasets and real-time data streams using PySpark, enabling sub-second analytics and accelerating business decision-making across high-throughput environments.
- Built Tableau and Power BI dashboards that cut 200+ annual reporting hours and improved visibility across teams. Enabled 20% faster delivery by translating business needs into analytics solutions using Agile and root-cause analysis.

TECHNICAL SKILLS

- **Programming Languages:**   Python, SQL, R
- **Methodologies:**   Agile, Waterfall
- **Data Visualization:**   Power BI, Tableau, Microsoft Excel
- **Cloud Platforms:**   AWS (S3, EC2, Redshift, IAM, Glue)
- **Databases:**   MySQL, SQL, Oracle, MongoDB, NoSQL
- **Version Control Tools and Others:**   Git, GitHub, Docker, Jenkins, Visual Studio Code
- **Big Data & Machine Learning:**   Hadoop, Spark, PyTorch, Kafka, HDFS, MapReduce
- **ETL Tools:**   Informatica, SSIS, Talend, Apache Nifi, ETL Automation
- **Data Analysis:**   Data Mining, Data Governance, A/B Testing, Data Warehousing
- **Libraries and Frameworks:**   NumPy, Pandas, SciPy, PySpark, Matplotlib, Flask, Django

PROFESSIONAL EXPERIENCE

McKinsey & Company   **Oct 2024 -Current**
Data Engineer/Data Analyst   TX, USA

- Analyzed supply chain datasets using Python, identifying inefficiencies that led to a 15% reduction in fulfillment delays across 500+ client operations.
- Optimized SQL Server performance for a manufacturing client using star schema modeling, columnstore indexing, and T-SQL scripting, reducing query times by 60% on 10M+ production records and enhancing executive dashboards for operational efficiency.
- Engineered pipelines using AWS Glue and PyTorch for a global e-commerce client, integrating structured (Redshift) and unstructured data (behavior logs, IoT streams) to reduce model training time by 35% and enable real-time personalization, increasing projected revenue by $2M annually.
- Established data governance frameworks to enforce classification and access controls, securing structured and unstructured data and enabling full regulatory compliance with zero audit findings.
- Designed and optimized Power BI dashboards using advanced DAX measures and calculated columns to track KPIs such as cost per unit, throughput, and on-time delivery, enabling strategic decision-making across supply chain and finance teams.
- Utilized Power Query for complex data transformation tasks, including merging disparate data sources, cleansing inconsistent formats, and automating refresh schedules for real-time reporting.
- Designed and deployed Flask-based web applications for a healthcare client, delivering interactive dashboards for real-time insights & usability for 200 stakeholders, enabling new data-driven operational improvements.
- Automated ETL workflows using Informatica for a global manufacturing client, optimizing data extraction, transformation, and loading processes, cutting weekly processing time from 12 hours to 7 hours, and accelerating report cycles.
- Documented end-to-end data workflows, ETL processes, and system integrations to ensure transparency, reproducibility, and smooth knowledge transfer across analytics and engineering teams.

Dell Technologies   **Aug 2021 - Jul 2022**

Data Analyst   India

- Utilized Python to design and implement AWS Glue ETL pipelines, automating data integration across diverse enterprise systems, ensuring smooth, error-free data flow and reducing manual processing efforts for system efficiency.
- Programmed SQL to execute complex workflows on MySQL databases, processing 20 GB of raw business data to enable detailed cost analysis, customer segmentation, and operational improvements, shaping strategic business decisions.
- Enhanced Power BI data sources by optimizing SQL queries, streamlining report generation processes and improving accessibility for 11+ global stakeholders in compliance, operations, and supply chain teams, fostering better decision-making.
- Applied data analysis techniques to dissect large datasets (6,000+ records), extracting predictive insights that optimized workflows, operational efficiency, and supported data-driven decision-making across the organization.
- Crafted interactive dashboards using Matplotlib to visualize key performance metrics, enabling stakeholders to quickly identify inefficiencies, streamline operations, and make informed decisions with clear, actionable visuals.
- Developed interactive visualizations with custom slicers, drill-through filters, and parameterized views, empowering 100+ business users to explore trends across regions, timeframes, and product categories with self-service analytics.
- Configured data extraction from Salesforce using Pandas for precise data manipulation, ensuring high reporting accuracy and maintaining compliance audit integrity for 30+ enterprise clients, decreasing errors.
- Engaged in Agile sprints to align analytics deliverables with evolving business priorities, improving backlog management and accelerating task completion, resulting in more efficient project cycles.
- Architected AWS Redshift data warehouses to consolidate critical business data, achieving sub-500 ms query latency and providing secure, scalable storage solutions for millions of records, supporting data operations.

Trigent Software   **Feb 2021 - Jul 2021**

Data Analyst Intern   India

- Processed and validated structured and unstructured data using Python and SQL, supporting senior analysts with trend insights and assisting data engineers in refining pipelines—reducing discrepancies by 15+ entries per report through robust data quality checks.
- Improved data warehousing strategies by utilizing MongoDB for flexible, high-volume storage and Oracle for systems supporting high-throughput environments and ensuring reliable data retrieval for critical business applications.
- Formulated over four scalable data pipelines using AWS services, including BigQuery for analytics and Dataflow for stream processing enabling advanced business intelligence and analytics capabilities.
- Developed pipelines using Django to consolidate disparate enterprise data into secure, centralized storage facilitating data access for analytics, and compliance monitoring, strengthening data and operational efficiency.
- Enhanced Git for version control of analytical scripts, streamlining collaboration and improving big data processing workflows, accelerating data analytics for real-time reporting and predictive modeling, delivering faster insights.
- Created dashboards in Microsoft Excel to visualize key performance indicators (KPIs), financial trends, and operational metrics empowering stakeholders with clear, actionable insights to support informed decision-making.
- Automated 3+ workflows using data mining techniques, diminishing time and boosting key business tasks such as risk assessment, performance monitoring, and compliance reporting, improving operational agility and accuracy.

EDUCATION

California State University Long Beach   **Aug 2022 – May 2024**

Master of Science in Computer Science   Long Beach, CA, USA

Vellore Institute of Technology   **Aug 2018 – May 2022**

Bachelor of Technology in Computer Science   Andhra Pradesh, India

CERTIFICATIONS

1. Microsoft Certified: Power BI Data Analyst Associate (PL-300)
2. AWS SysOps Administrator (AWS SOA-02)
3. AWS Cloud Practitioner (AWS CLF-C02)
4. OCI Gen AI Professional