PRANITHA NEKKANTI

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EDUCATION

Master of Science in Information Technology **Jan 2023 – Dec 2024**

Arizona State University, Ira A. Fulton Schools of Engineering, Tempe, AZ 4.0 / 4.0 GPA

Bachelor of Technology in Computer Science and Engineering **Jun 2017 – Jun 2021**

Gandhi Institute of Technology and Management, Bengaluru, India 3.6 / 4.0 GPA

PROFESSIONAL EXPERIENCE

Data Engineer 2, PwC, Bengaluru, India **Aug 2021 – Nov 2022**

- Designed ETL frameworks using Azure Data Factory to streamline HR data migration, enabling smooth transitions across multiple systems, and reducing processing times by 20%.
- Created an Excel-to-XML framework for 3,000 applications, reducing errors by 98% and streamlining workflows.
- Optimized data engineering pipelines using Apache Spark, boosting processing efficiency for large datasets by 30%.
- Engineered data warehousing solutions by integrating Hadoop and Kafka for processing large-scale unstructured data, enabling real-time analytics, and improving data accessibility by 25%.
- Spearheaded automation solutions using UiPath and Python, reducing manual intervention and HR processing times by 20%.
- Developed Power BI dashboards, enabling real-time operational insights and improved issue resolution times by 15%.
- Implemented scalable data storage and querying using Azure Data Lake and Synapse Analytics
- Authored technical documentation on Azure Data Factory, aiding in the adoption of best practices for future deployments.

Full Stack Web Developer Intern, VERZEO, Bengaluru, India **May 2020 – Jul 2020**

- Developed an end-to-end MERN stack web application, achieving a 50% improvement in user engagement within first 3 months.
- Integrated SQL and NoSQL databases to optimize dynamic data retrieval, reducing server response times by 30%.
- Employed CI/CD pipelines to streamline development processes, achieving a 40% reduction in deployment errors.

TECHNICAL SKILLS

Programming/Scripting Languages: Python, R, Java, C++, C, C#, JavaScript, SQL, NoSQL, Pandas, NumPy, Data Structures, Algorithms

Technologies: Databricks, Apache Spark, Kafka, Hadoop, Hive, Docker, CosmosDB, DynamoDB, PostgreSQL, Power BI, Tableau, MongoDB, SQL Server Management Studio, Airflow, Jenkins, ETL, CI/CD, DBMS, Kubernetes, Machine Learning, AI, Deep Leaning

Cloud & Data Engineering: Cloud computing, Microsoft Azure, AWS, GCP, IoT integration, Data Lakes, Data Warehousing, Data Migration, ETL Pipeline Design, Real-time Data Streaming, Big Data Analytics, Data Modeling, Data Transformation, Data Visualization

Operating Systems: Linux, iOS, Windows, Unix

Core Competencies: Agile, Jira, Git, DevOps, Project Management, Team Collaboration, Client & Cross-functional Team Communication

ACADEMIC PROJECTS

YouTube Trending Data Pipeline and Analytics using AWS **Aug 2024**

- Created a scalable data pipeline using AWS (S3, Glue, Lambda, Athena) to process YouTube trending datasets from Kaggle, transforming CSV and JSON files into Parquet format for efficient querying.
- Implemented automated data transformation workflows that supported the integration of diverse data formats, increasing data reliability for analytics and enhancing reporting speed by 50% across key business units.
- Mapped regional YouTube trends through advanced visualizations in Amazon QuickSight, driving the creation of 5 new targeted marketing campaigns; resulted in increased audience engagement and improved content strategy.

IoT based Health Monitoring Device for Elder People using Real time Object Detection **Jan 2021**

- Developed an IoT-based health monitoring system utilizing Arduino, Raspberry Pi, and cloud technologies, which enhanced real-time health data collection efficiency by 40% and reduced data visualization latency by 50%.
- Implemented Detectron2 for real-time object detection using ML, boosting accuracy by 30% and cutting processing time by 60%.

CERTIFICATIONS

- Advanced UiPath RPA Developer — Mar 2022
- Microsoft Azure Developer Associate — Sept 2022
- Microsoft Azure Data Fundamentals — Jan 2022
- Microsoft Data Analyst Associate — Jan 2022
- AWS Solution Architect - Associate — Mar 2018