PRANITHA NEKKANTI
DATA ENGINEER

E-MAIL: pnekkant@asu.edu | **PHONE:** +1 (623) 291-8069 | LinkedIn | GitHub

PROFESSIONAL SUMMARY:

As a data engineer with over 1 year of professional experience, I specialize in designing, building, and optimizing scalable data pipelines and workflows. Proficient in **Python, SQL, and Spark**, I have hands-on experience with **ETL processes, data warehousing (Snowflake, Redshift), and cloud platforms (AWS, Azure)**. Skilled in working with databases such as **MySQL, PostgreSQL, MongoDB, and Cassandra**, I excel in transforming raw data into actionable insights through effective data modelling and pipeline automation. Passionate about leveraging big data technologies and maintaining data quality, I aim to drive data-driven decision-making and contribute to efficient, high-performing analytics systems.

TECHNICAL SKILLS:

Programming Languages:	Python, R, Java, C++, C, C#, JavaScript, SQL, NoSQL, Pandas, NumPy, Data Structures, Algorithms
Data Engineering Tools:	Apache Spark, Apache Kafka, Hadoop, Hive, Airflow, Databricks, Jenkins, Docker, Kubernetes, ETL
Databases:	MySQL, PostgreSQL, MongoDB, Cassandra, Snowflake, Redshift, DynamoDB, CosmosDB, SQL Server Management Studio
Cloud & Data Engineering:	AWS (S3, Redshift, Glue, EMR), Azure (Data Factory, Synapse), Google Cloud (BigQuery, Dataproc), Cloud Computing, IoT Integration, Data Lakes, Data Warehousing, Real-time Data Streaming, Data Migration, Data Modeling, Data Transformation, Big Data Analytics, Data Visualization
Big Data Technologies:	HDFS, Hive, Pig, Presto, Data Warehousing, Data Lakes
Data Visualization:	Power BI, Tableau
Collaboration & Tools:	Trello, Jira, Slack, Git, GitHub, Agile, DevOps, Project Management, Team Collaboration, Client & Cross-functional Team Communication
Machine Learning & AI:	Machine Learning, AI, Deep Learning
Operating Systems:	Linux, iOS, Windows, Unix

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

CERTIFICATIONS:

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

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 Quick Sight, 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%.

IPL Performance Analyser Dashboard   **Dec 2023**
- Built an **interactive Tableau dashboard** to analyze **IPL data (2008–2020),** offering insights and player performance.
- Processed **816 matches** and **193,468 ball-by-ball records**, generating charts with custom filters for exploration.
- Designed the dashboard for team **owners, analysts, media, and fantasy enthusiasts**, enabling **real-time decisions.**
- Applied **data analysis, pre-processing, and visualization** to develop an intuitive, **engaging tool**.

PROFESSIONAL EXPERIENCE:

Data Engineer 2   **Aug 2021 – Nov 2022**
PwC, Bengaluru, India
- Assisted in developing **scalable ETL pipelines** to process and transform **large datasets (500GB+ daily)** from various sources, improving data accessibility by **20%**.
- Worked on implementing **real-time data streaming solutions** using **Apache Kafka**, enhancing data flow efficiency for critical business processes by **15%**.
- Supported the design and maintenance of **data lakes and warehouses** using **AWS Redshift** and **Azure Synapse**, enabling advanced analytics for **5+ projects**.
- Performed **data processing and analysis tasks** using **Apache Spark** and **Data bricks**, reducing batch processing times by **15-20%**.
- Created **interactive dashboards and reports** using **Tableau** and **Power BI**, delivering actionable insights for **3+ client teams**.
- Automated **recurring data workflows** using **Apache Airflow**, ensuring timely execution of tasks and reducing manual intervention by **30%**.
- Ensured **data quality and integrity** by conducting validation checks and resolving pipeline issues, maintaining **99% data accuracy** for client deliverables.
- Used **PostgreSQL** and **MongoDB** to optimize database queries, reducing data retrieval times by **25%** for business-critical operations.
- Collaborated with team members to implement **Git-based version control**, streamlining script management for **10+ projects**.
- Actively participated in **agile ceremonies** such as daily stand-ups and sprint reviews, contributing to on-time delivery of **2+ major projects**.

Database Administrator - Intern   **Sept 2020 – Jun 2021**
Vijayalakshi Agro Food Industries, Bengaluru, India
- Developed and maintained **SQL queries and stored procedures** to enhance the efficiency of processing grain procurement, milling, and distribution data.
- Automated **data backup and recovery procedures**, reducing downtime and ensuring business continuity.
- Implemented **real-time data monitoring and reporting dashboards** to track milling yields, stock levels, and order processing using **Power BI**.
- Ensured **database security and integrity** by enforcing access controls, optimizing indexes, and performing audits.
- Assisted in integrating IoT-based data collection for tracking grain quality, optimizing batch processing efficiency.
- Collaborated with cross-functional teams to improve data workflows, enhancing operational efficiency by **15%**.

Full Stack Web Developer - Intern   **May 2020 – Jul 2020**
VERZEO, Bengaluru, India
- Designed and developed **3+ dynamic web applications** using **HTML, CSS, JavaScript**, and **React.js**, enhancing user engagement and responsiveness.
- Collaborated with a team of **5 interns** to build an end-to-end **e-commerce prototype**, integrating secure payment gateways and real-time inventory management.
- Created and optimized **RESTful APIs** using **Node.js** and **Express**, reducing server response times by **20%**.
- Implemented **database schemas** and managed data storage using **MySQL**, ensuring high data integrity and supporting **10,000+ records**.
- Conducted **front-end testing** to identify and resolve **15+ UI/UX bugs**, improving the user experience and navigation flow.
- Deployed applications on **AWS EC2** and configured **Git repositories**, streamlining version control and collaboration.
- Automated repetitive tasks using **Python scripts**, cutting down development time by **15%**.
- Prepared detailed project documentation and presented progress reports to senior developers, receiving positive feedback for effective communication and problem-solving skills.