PANSHUL SARASWAT

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Summary

Business Analyst with expertise in **data analysis, enterprise data warehouse system (EDW), machine learning,** and **AI-powered solutions.** Achievements include a **40% improvement in analysis accuracy, 50% reduction in processing time,** and **30% boost in grant relevancy.** Skilled in building **data pipelines,** deploying **interactive dashboards,** and delivering **actionable insights. Enjoys FPS gaming and travel for fun and always seeking adventures.**

Work Experience

2024-08 - Present

Data Analyst

Santech Solutions, Princeton, NJ

- **Streamlined contract workflows** in the healthcare sector by developing iSmart, an **AI-powered healthcare tool** integrated with iNetwork for **automated contract analysis, summarization, clause extraction, and new contract generation.**
- **Improved Contract analysis accuracy** and **decreased manual review time** by implementing **machine learning models** and vector storage systems automating contract review processes and reducing human errors.
- **Delivered actionable insights and enhanced operational efficiency** by addressing unorganized contract management, enabling faster decision-making and optimizing resource allocation through **AI-driven automation.**

2024-01 - 2024-05

Business Analyst

Discovery Partner Institute (DPI), Champaign, IL

- **Increased grant relevancy and effectiveness by 30%** by leading a 9-member team to develop an **AI and LLM-powered tool** for **project and grant tracking** at DPI, leveraging **AI algorithms and Python web scraping** to streamline workflows.
- **Enhanced data retrieval accuracy by 40%** and halved processing time by designing and deploying a **comprehensive data extraction and summarization system** using **Azure Chat OpenAI, advanced NLP models,** and **PDF extraction.**

2021-05 - 2022-11

Software Engineer/Analyst

Capgemini, Bangalore, India

- **Enhanced data-driven decision-making** by developing a new feature for the **devlink project,** leveraging **Tableau** and **Excel** to analyze productivity metrics, perform impact analysis, and identify bottlenecks in workflows, **improving team** efficiency.
- **Reduced system errors by 30%** through advanced **data debugging techniques** for **UICC driver** and **NVM issues,** using **Lauterbach/JTAG debugger** and conducting **statistical analysis** to validate the improvements and ensure system reliability.
- **Achieved a 95% resolution rate** by collaborating with cross-functional teams to analyze and address recurring issues in **memory shared systems, SIM drivers,** and **I2C components,** utilizing **root cause analysis** and **data insights** to develop long-term solutions.

Education

2023-08 - 2024-05

Master's in Business Analytics

University of Illinois Urbana-Champaign, Champaign, IL

GPA: 3.85/4.00

2017-07 - 2021-05

Bachelor of Technology in Electronics and Communication Engineering

SRM Institute of Science and Technology, Chennai, India

GPA: 7.61/10

Academic Projects

Cloud-Optimized Data Ecosystem Project Integration

GitHub

Developed cloud-based MongoDB clusters for **secure data management** and **integrated Yelp** and **real-time NFT** sales data using **Python. Enhanced decision-making by 30%** through **KNIME workflows** analyzing **200+ restaurants and thousands of NFT transactions.**

Real-Time NBA Data Analytics Pipeline

GitHub

Enhanced real-time NBA game analysis and **decision-making** by developing a **data pipeline** with **Apache Kafka, Apache Spark, InfluxDB,** and **Grafana** for efficient handling of **live game statistics** and **player metrics. Boosted fan engagement** by creating **interactive Grafana dashboards** with **real-time updates and visual insights.**

Statistical Modeling for Property Valuation

GitHub

Improved dataset compatibility by **addressing missing values, outliers, and inconsistencies** and identifying **key factors** influencing **house sale prices** through **statistical analysis.** Achieved **92% accuracy** in price prediction using **Lasso regression.**