# Panshul Saraswat

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## SUMMARY

**Business Analyst** with expertise in **data analysis**, **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**.

## EDUCATION

**University of Illinois Urbana-Champaign,** Champaign, IL — Aug 2023 - May 2024
Master's in Business Analytics — GPA: 3.85/4.00

**SRM Institute of Science and Technology,** Chennai, India — July 2017- May 2021
Bachelor of Technology in Electronics and Communication Engineering — GPA: 7.61/10

## SKILLS AND CERTIFICATIONS

**Skills:** Data Analysis, Data Visualization, Consumer Analysis, Financial Analysis, Market Analysis,Technical Documentation
**Databases & Big Data:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB), HDFS, Apache Kafka
**Cloud Platforms:** AWS, Azure, Google Cloud Platform
**Programming:** Python (pandas, NumPy, matplotlib, seaborn), R, SAS, MATLAB, C
**Visualization & Analytics:** Tableau, Power BI Microsoft Excel, KNIME, Apache Spark, Hadoop
**Certifications:** Microsoft Azure Fundamentals, Knime Basics.

## WORK EXPERIENCE

**Santech Solutions,** Data Analyst*, Princeton, NJ* — Aug 2024 - Present

- **Increased analysis accuracy by 40%** and **reduced manual processing time by 50%** by developing **iSmart**, an **AI-powered healthcare tool** integrated with **iNetwork** for automated **contract analysis**, **summarization**, **clause extraction**, and **new contract generation**.
- **Streamlined contract workflows** in the healthcare sector by implementing **machine learning models** and **vector storage systems** (e.g., **Milvus, Qdrant**), enhancing operational efficiency and delivering actionable insights through AI-driven automation

**Discovery Partner Institute (DPI),** Business Analyst*, Champaign, IL* — Jan 2024 - May 2024

- **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**.

**Capgemini,** Software Engineer/Analyst*, Bangalore, India* — Mar 2021 - Nov 2022

- **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

## 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**

## LEADERSHIP & PUBLICATIONS

**Geis College of Business,** MSBA Leadership Council Member

- As a council liaison for over 100 students, I resolved conflicts and fostered an inclusive environment, while also developing and implementing a support system that provided crucial academic resources to enhance student success.

**ICEEICT 2023**

- Presented research on "Approximate Divider for Error-Resilient Image Processing" at IEEE ICEEICT 2023, leveraging Cadence Virtuoso, MODELSIM, and MATLAB for VLSI circuit design and statistical analysis.