

Panshul Saraswat

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SUMMARY

Business Analyst skilled in data analysis, data extraction and model development, and impactful data visualizations. Achievements include enhancing grant relevancy and customer targeting by 30% through AI tools and strategic segmentation. Adept at communicating insights to both technical and non-technical audiences. Enthusiastic about leveraging analytics expertise to drive strategic solutions. Enjoys FPS gaming and travel for fun and adventure.

EDUCATION

University of Illinois Urbana-Champaign, Champaign, IL

Graduation Date: May 2024

Master's in Business Analytics

GPA: 3.85/4.00

SRM Institute of Science and Technology, Chennai, India

Graduation Date: Jun 2021

Bachelor of Technology in Electronics and Communication Engineering

GPA: 7.61/10

Relevant Coursework: Database Management, Predictive & Statistical Analysis, Business Intelligence, Decision Modeling, Data Mining, Data Storytelling, Data Visualization, Machine Learning, Supply Chain Management, Big Data Finance, Financial Data Management Analysis

SKILLS AND CERTIFICATIONS

Skills and Tools: Data Analysis, Consumer Analysis, Customer Account Mangement, Financial Analysis, Market analysis, C, Python (pandas, NumPy, matplotlib, seaborn), SQL, MySQL Server, NoSQL, R, SAS, MATLAB, Wolfram, MySQL, PostgreSQL, MongoDB, HDFS, Tableau, Microsoft Excel, Amazon AWS Services, Azure, Google Cloud Platform, Hadoop, Knime, Spark.

Certifications: Microsoft Azure Fundamentals, Knime Basics.

WORK EXPERIENCE

Santech Solutions, Data Analyst, *Princeton, NJ*

Aug 2024 - Present

- Contributing to the development of iSmart, an AI-powered healthcare tool at Santech Solutions, which integrates with iNetwork for automated contract analysis, summarization, clause extraction, and new contract generation.
- Enhancing contract management in the healthcare sector by implementing machine learning models and vector storage (Milvus, Qdrant), increasing analysis accuracy by 40% and reducing manual processing time by 50%.

Discovery Partner Institute (DPI), Business Analyst, *Champaign, IL*

Jan 2024 - May 2024

- Led 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 increase grant relevancy and effectiveness by 30%.
- Designed and deployed a comprehensive data extraction and summarization system using Azure Chat OpenAI, advanced NLP models, and PDF extraction, enhancing data retrieval accuracy by 40% and halving processing time.

Capgemini, Software Engineer/Analyst, *Bangalore, India*

Mar 2021 – Nov 2022

- Developed a new feature for the devlink project, boosting productivity for Intel's internal teams. Leveraged Tableau and Excel to track productivity metrics and conduct impact analysis.
- Debugged and resolved UICC driver and NVM issues using Lauterbach/JTAG debugger, reducing system errors by 30% and conducting statistical analysis to measure error reduction.
- Collaborated with cross-functional teams to resolve technical issues in memory shared systems, SIM driver, and I2C, achieving a 95% resolution rate and utilizing root cause analysis to prevent future issues.

ACADEMIC PROJECTS

Cloud-Optimized Data Ecosystem Project Integration | [GitHub](#)

- Implemented scalable MongoDB clusters on the cloud for secure and efficient data storage and management. Utilized Python to process and integrate Yelp data from Kaggle and incorporated real-time NFT sales data from Flipside via a Python API.
- Linked KNIME workflows with MongoDB to analyze data from 200+ restaurants and thousands of NFT transactions, enhancing data-driven decision-making by 30%.

Real-Time NBA Data Analytics Pipeline | [GitHub](#)

- Developed a data pipeline with Apache Kafka, Apache Spark, InfluxDB, and Grafana to enhance real-time NBA game analysis and decision-making, designing a robust data ingestion system for efficient handling of live game statistics and player metrics.
- Created interactive Grafana dashboards for real-time updates and visual insights, boosting fan engagement and supporting strategic gameplay decisions.

Statistical Modeling for Property Valuation | [GitHub](#)

- Conducted comprehensive data cleaning to enhance dataset compatibility by addressing missing values, outliers, and inconsistencies; identified key factors influencing house sale prices through statistical analysis.
- Evaluated multiple regression models to predict housing sale prices, achieving the highest accuracy of 92% with the 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 the research paper "Design and Implementation of Approximate Divider for Error-Resilient Image Processing Applications" at the IEEE-sponsored conference, utilizing Cadence Virtuoso, MODELSIM, and MATLAB to develop VLSI circuits, and conducted statistical analysis for strategic decision-making.