Sanjith Krishna Venkatesh Kumar

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PROFILE

MS Business Analytics student with a strong foundation in machine learning, optimization, and NLP, backed by hands-on project experience across fintech, research, and consulting.

PROFESSIONAL EXPERIENCE

Kearney Student Lab (Capstone Project)   **West Lafayette, IN**
Data Science Consultant   **January 2025 - May 2025**

- Forecasted monthly spend using Holt-Winters smoothing (MAPE: 8.46%), enhancing budgeting precision for strategic procurement planning.
- Built a procurement analytics model for Chubb that achieved 97.3% accuracy in identifying high-impact vendor negotiations, enabling data-driven cost savings.

Finsire   **Chennai, India**
Data Scientist   **September 2023 – August 2024**

- Designed and deployed a vehicle valuation model and database spanning 16K cars and 7K bikes (2013–2023), enabling seamless collateral-based lending for a fintech platform.
- Built and optimized RestAPI + Flask endpoints to automate price updates for stocks and mutual funds, cutting data refresh time from 2 minutes to 2 seconds per call.
- Developed an NLP-driven bank statement analyzer using Word2Vec and BERT, reaching 65% transaction classification accuracy, approaching the 72% industry benchmark.

EDUCATION

Purdue University, Daniels School of Business   **West Lafayette, IN**
Master of Business Analytics and Information Management   **August 2024 - August 2025**

- Teaching Assistant for MGMT 58600 Python Programming
- USD 2600 Merit Scholarship recipient

Birla Institute of Technology and Science Pilani   **Hyderabad, India**
Bachelor of Chemical Engineering

- Coursework: Probability and Statistics(Top 20% in a class of 1000),Effective Public Speaking (Placed 3rd in a class of 100) and Advanced Statistical Methods

RESEARCH EXPERIENCE

Birla Institute of Technology and Science Pilani, Hyderabad Campus   **Hyderabad, India**
Unlocking the potential of Ti_3C_2 electrodes: a data-driven capacitance prediction (Link to Paper)   **September 2022 – December 2023**

- Developed and fine-tuned machine learning models, including Bayesian Ridge Regression, K-Nearest Neighbors (R^2: 0.928, RMSE: 0.040), and Artificial Neural Networks (R^2: 0.893, RMSE: 0.049), to accurately predict specific capacitance in Ti3C2-based supercapacitors.

National University of Singapore
Optimal Scheduling and Model-Based Control of Chemical Processes   **June 2023 – December 2023**

- Designed a DLTI-based optimization model using Python and MATLAB, employing SLSQP algorithms to improve pulp plant operational efficiency during critical processes such as shutdowns and startups.

SKILLS

Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Keras, PyTorch), SQL (MySQL, PostgreSQL), NoSQL (Firebase); Flask, REST APIs, Tableau, and MATLAB. NLP (Word2Vec, BERT), time series forecasting, and optimization. Cloud Computing (AWS, Azure); certified in Google Data Analytics, Bloomberg Market Concepts.

LEADERSHIP ACTIVITIES

- Volunteered with the Digital Equity Foundation to bridge the digital divide, designing and delivering a tech curriculum to 1,500+ low-income students over 10 months; led a team of student volunteers at a partner school, ensuring all 98 students gained hands-on experience with G-suite tools.