





# SHIVA TEJ SOMA

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## EDUCATION

**University of Toronto**, Master of Engineering | Toronto, ON | 2022 - 2024 | **CGPA:** 3.7/4.0

- **Dual Emphasis:** “Data Analytics and Machine Learning” and “Emphasis in Entrepreneurship, Leadership, Innovation and Technology in Engineering”
- **Relevant Coursework:** Data Science, Data Analytics and Machine Learning, Introduction to Deep Learning, Cloud-Based Data Analytics, AI in Finance, New Product Innovation, Project Management

**Vellore Institute of Technology**, Bachelor of Technology | Vellore, India | 2017 - 2021 | **GPA:** 8.7/10

## WORK EXPERIENCE

**Data Analyst (Contract)**  
*Crane Partners Investment Firm | New York Metro Area (Remote) | Jun. 2024 – Present*

- Contracted by Crane Partners, a Wall Street firm, for specialized real estate market analysis for 3 months.
- Web scraped real estate data, developed ML models using XGBoost and Random Forest, implemented data visualization dashboards in Tableau.
- Reduced data acquisition costs by \$10k-\$30k, working on providing accurate forecasting, and contributed to strategic decision-making with actionable market insights.

**Key skills:** Python Programming · Web Scraping (BeautifulSoup, selenium) · Machine Learning (XGBoost, Random Forest) · Data Analysis · Predictive Modeling · Data Visualization (Tableau, Matplotlib) · **Data Forecasting.**

**Academic Research Analyst**  
*California Polytechnic State University | San Luis Obispo (Remote) | Nov. 2023 – Apr. 2024*

- Collaborated with Dr. Kirk Sturm on pioneering research in business crisis communication and and improve data management processes
- Analyzed academic datasets, automated data cleaning processes, and improved data collection methods.
- Saved 40% of time spent on data preparation and increased the number of completed forms by 2-fold.

**Key Skills:** Analytical Skills · Strategic Planning · **Python (pandas, NumPy, Scikit)** · Statistical Data Analysis · Crisis Communications · Business Intelligence

**Volunteer Research Assistant**  
*University of Toronto | Toronto, ON | Sep. 2022 – Jan. 2023*

- Applied NLP to extract skills from job descriptions for curriculum development.
- Implemented clustering algorithms (Hierarchical and K-means) to categorize skills as courses.
- Optimized runtime performance from 2.5-3 hours to 15-17 minutes, improvement of over 85%.
- Work incorporated into a University of Toronto course assignment/project for MIE1628.

**Key Skills:** Data Management · Python (Programming Language) · **Azure (Data Bricks, Data factory, Fabric)** · Natural Language Processing (NLP) · Optimization · **Data Visualization**

**Programming Tutor**  
*Varsity Tutors, a Nerdy Company | Online (Remote) | Jun. 2022 – Dec. 2023*

- Provided one-on-one tutoring in python, java and Web technologies (HTML, CSS, JavaScript, React).
- Mentored special award-winning projects for LA County Science fair.

**Key Skills:** Educational Instruction · Curriculum Development · Python · Java · JavaScript · React · Optimization

**Associate – Business Strategy & Analyst**  
*ET MediaLabs | Noida, India | Jan. 2021 – Dec. 2021*

- Planned and optimized online marketing strategies for platforms like Google and Facebook Ads.
- Analyzed website data using SQL to identify areas for improvement and developed insights using Tableau.
- Built and maintained dashboards for digital performance metrics, presenting weekly findings to management.

**Key Skills:** Data Analysis · SQL · Tableau · Dashboard Development · **Cross-functional Collaboration** · Looker

## RELEVANT SKILLS

**Programming Languages:** Python, SQL, JavaScript, Java

**Data Analysis and Visualization:** Pandas, NumPy, Scikit-Learn | tableau, Matplotlib, seaborn

**Machine Learning and Cloud:** PyTorch, Natural Language Processing, **Azure (Data Bricks, Data factory, Fabric)**

**Tools, Technologies and Platforms:** Version Control (Git, GitHub), MS Excel, **Langchain (GenAI, RAG)**