

Tanvi Jain

Stony Brook, NY, USA • tanjain@cs.stonybrook.edu • +1 (631) 202-7073 • [LinkedIn](#) • [GitHub](#)

EDUCATION

Stony Brook University, Stony Brook, NY

Dec 2024

Masters of Science in **Computer Science**

GPA: 3.6/4.0

Coursework: Database Management, Data Science Fundamentals, Data Structures and Algorithms Analysis, Discrete Math

SRM University, Chennai, India

May 2021

Bachelor of Technology in **Computer Science and Engineering**

GPA: 3.7/4.0

Coursework: Operating Systems, Cloud Systems, Software Engineering, Object-Oriented Programming

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEERING INTERN | CVS HEALTH, TX, USA

May 2024 - Present

- Played a key role as a **Data Steward** in advancing the CVS Data Portal's **metadata quality from 20% (poor) to 100% (excellent)** by expertly managing and curating AI-generated data.
- Spearheaded the **development of APIs** for the EMRD (Enterprise Master Reference Data Management) application, a data analytics platform designed to facilitate seamless access to reference data artifacts such as global lookup tables, cross-reference tables, and industry standard code sets, ensuring efficient data exchange and integration with existing healthcare systems.
- Designed detailed 10+ ETL flows** using Lucid chart to showcase team offerings, enhancing visibility across CVS and for stakeholders, and aligning reference data process flows with enterprise standards.
- Won the DDAT Intern Innovation Challenge** organized by CVS by proposing and developing a proof of concept for a three-month diabetes tracking system on the patient portal, aimed at reducing hospital visits and **increasing Aetna Medicare Advantage margins** by 15% through a 20% reduction in technology costs.

GRADUATE ASSISTANT | WOMEN IN SCIENCE AND ENGINEERING, NY, USA

October 2023 – May 2024

- Spearheaded data analysis for new admissions using **Python and SQL**, resulting in recommended strategies that forecasted a 12% increase in the admissions process.
- Conducted **15+ workshops** and training sessions on **Python programming and data analysis techniques**, enhancing student's technical skills and confidence in handling complex data tasks.

SOFTWARE ENGINEER | TATA CONSULTANCY SERVICES, BANGALORE, INDIA

July 2021 – August 2023

- Developed the **TCS ADD Safety platform**, providing backend management and advanced solutions in collaboration with AstraZeneca. Used **Python, Flask, PostgreSQL, and Apache Airflow** to improve DAG and API performance, resulting in a **~10% increase** in requirement collection and a **~20% reduction** in onboarding time.
- Created 10+ robust **RESTful API endpoints** to enhance flexibility for the Kearney Commodity Cockpit. Streamlined MySQL performance with efficient **stored procedures and SQL queries**, achieving a **~30% reduction** in query execution time and overall system efficiency improvements.
- Redesigned frontend components and screens for **TCS' Enterprise Rights Management Solutions** using **HTML, CSS, JavaScript and Angular**, resulting in a **~20% increase** in modularity, **~25% faster** user task completion, and a **15% boost** in engagement through responsive design practices in collaboration with the UI/UX team.

SOFTWARE ENGINEERING INTERN | TATA CONSULTANCY SERVICES, KOLKATA, INDIA

March 2021 - June 2021

- Implemented **python code** to enhance content and wording prediction accuracy for evaluating student summaries by 15% and 12% through **advanced data cleaning and transformation techniques**.
 - Utilized **SQL scripts** to perform efficient data extraction and transformation, implementing optimization strategies such as **indexing, query refactoring, and partitioning** to significantly enhance overall analysis performance and reduce processing time.
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ACADEMIC PROJECTS

Exploring Song Traits for Success (Python | Numpy | Pandas | Data Science | Data Visualization | Feature Engineering):

- Processed and analyzed a 2.5M+ row music dataset using APIs, performing data visualization,
- Evaluated multiple ML models (Logistic Regression, XGBoost, K-NN, Random Forest, SVM) with an average accuracy of 76%.

A Smart Stick For Visually Impaired People Using Raspberry Pi (Python | SQL | Raspberry Pi):

- Addressed real-world accessibility challenges for over 50 visually impaired users by employing Raspberry Pi and SQL, reducing development costs by 30%.

Health Assistant Oppy (Python | SQL | NLP):

- Built a wellness chatbot using SQL, Python, and NLP for emotion analysis, fitness tracking, health tips, and medication reminders.
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TECHNICAL SKILLS AND CERTIFICATIONS

- **Languages:** SQL, Python, JavaScript, C++, C, HTML5, CSS.
- **Databases/Data Warehouses:** BigQuery, MYSQL, PostgreSQL, Neo4j, Snowflake.
- **Frameworks/Tools:** Terraform, Tableau, Power BI, Lucid Charts, GCP, Apache Airflow, Azure, GIT, Postman, REST APIs.