

# SUJAY SHRIVASTAVA

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## EDUCATION

**Master's in Engineering Sciences: Data Science**, University at Buffalo

Jan 2023 - June 2024

- GPA - 3.3/4.0
- Relevant course work: Statistics, Python Programming, Probability Theory, Numerical Mathematics, Data Intensive Computing, Data Models Query Language, Machine Learning

**Bachelor's in Pharmacy: Pharmacy**, Rajiv Gandhi Proudhyogiki Vishwavidyalaya

Aug 2018 -May 2022

- GPA - 3.2/4.0

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, MATLAB, SQL, C, Java, HTML, CSS, Javascript
- **Frameworks:** TensorFlow, Keras, opencv, PyTorch, scikit-learn, Orfeo Toolbox, Apache Hadoop, Apache Spark, MongoDB, GDAL, NLTK, spaCy, TextBlob, XGBoost, REST API
- **Tools:** GCP, Azure, Metabase, Mixpanel, Zoho, Notion, IBM Watson Studio, Docker and Kubernetes, Excel, Microsoft Office, Power BI, Tableau, QGIS, DigitalOcean, Linux, Vertex AI

## RELEVANT EXPERIENCE

**Graduate Research Assistant, SUNY at Buffalo, Buffalo, New York**

September 2023 – Present

- Furthered a novel Masked Auto Encoder with temporal embeddings of past 20 years for land cover analysis using multispectral satellite imagery resulting in 37% improvement in Intersection over Union
- Broke through a 6-month research standstill by single-handedly creating a satellite image annotation and segmentation pipeline, saving an estimated \$3,000 and accelerating project progress

**Data Scientist Intern, Curelink, Gurugram, Delhi – NCR**

May 2022 - August 2022

- Communicated insights resulting in decision to close a non-profitable healthcare department and reallocate resources saving approximately 0.5 million
- Developed live dashboards, with recursive and nested queries up to 8 levels deep in SQL, including Power BI dashboard for new customer retention department resulting in reduction of churn rate by 3%

**Machine Learning Engineer Intern, IIT Kharagpur, Remote**

January 2021 - March 2021

- Analyzed data with more than 50k records, leveraging sentiment analysis on customer satisfaction which resulted in 30% improvement of predictions and explainability of passenger count
- Communicated to drive stakeholder consensus on low-bias model, achieving 15% accuracy boost and integrated into the backed with REST API with an average delay of 50ms enabling real time predictions

## PROJECTS

**Spotilytics:** Python, HTML, SQL

- Created a synthetic database, optimized the select queries by 60% using indexing, Built an ETL pipeline to extract data, transform, and load into the database, and made Tableau dashboard.

**US Accidents Prediction:** Python

- Addressed data imbalance using different sampling techniques to train a model for 4-level accident severity classification on a massive 7.7-million-record dataset. Achieved 78% accuracy

## PUBLICATIONS

- Co-authored a paper titled "**Artificial Intelligence and Machine Learning in Marketing: A Review of Recent Advances and Future Trends**" in the European Chemical Bulletin

## EXTRA - CURRICULAR

- Led team to secure 3rd place in Blackstone Launchpad competition for leveraging AI and ML
- Elected as Social Media Coordinator in junior and senior year and Member of Cultural Organizing Committee in sophomore year in which organized Fall Mixer event for 200 plus incoming freshmen

## CERTIFICATIONS

- **Microsoft Azure:** Azure AI Engineer Associate (AI - 102)