

Jahnavi Gajula

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Education

Georgia State University, Atlanta

Master of Science in Data Science and Analytics – Major: Big Data and Machine Learning

August 2021 - Present

GPA: 4.0/4.0

SASTRA (Deemed to be University), India

Bachelor of Technology in Information Technology

July 2016 – May 2020

GPA: 3.35/4.0

Skills

Programming : Python (NumPy, Pandas, SciKit-learn, Seaborn, SciPy, NLTK, Matplotlib), SAS, HTML5, CSS, C++, SQL, R Programming
Technical Skills : NLP, Machine Learning, Neural Networks (CNN, RNN, LSTM), ETL (Extract, Transform & Load), Data Mining
Data Analysis : Tableau, PowerBI
Framework : Tensorflow, Keras, Pytorch, OpenCV, NLTK

Work Experience

Graduate Administrative Research Assistant - National Institute for Student Success, Georgia State University.

August 2021 - Present

- Reviewed **IPEDS data** (system of surveys that gathers information from every post-secondary institution participating in federal student financial aid programs) from different universities and found the graduation and retention trends through customized questionnaires and by arranging face to face Interviews with university officials.
- Facilitating the Diagnostic Team in data compiling, organizing, and visualization for purposes of analysis and presentation, conduct statistical analysis of each university with team head.

Data Scientist – HP (Research and Development), Bangalore, India.

October 2020 – July 2021

- Built **Deep neural networks** (DNN) using Keras and TensorFlow, built **Support vector machine** (SVM) to predict whether an invoice would result in a claim or know based on the past data.
- Used techniques in Deep learning like feature extraction and data augmentation.
- Built classification models include: **Logistic Regression, SVM, Decision Tree, Random Forest** to predict Customer Churn Rate.

Machine Learning Intern – HP (Research and Development), Bangalore, India.

January 2020 – September 2020

- Build Tool for Customer Support Service (CSS) agents to help resolve printer and pc related issues easily and hence reduce average handling time (AHT).
- Trained a **Deep Learning Model (LSTMs)** accounting for printer and PC, issue information as context and customer response to find course of steps.
- Got success rate of **75%** according to the reported feedback and helped in saving the HP's time and money.

Data Science Intern – Smart Bridge, Hyderabad, India.

June 2019 – December 2019

- Using **NLP**, extract key information from medical reports thereby reducing the processing time for more standard cases and enabling underwriters to focus on the most difficult or complex ones.
- Developed process for claims department, using **NLP** can simplify the evaluation of claims in process by reducing treatment time, minimizing operational errors, or even helping in fraud detection. Text mining can likewise be used in claims adjudication by simplifying their classification and facilitating the subsequent routing to the appropriate department in the chatbot.
- Using **NLP** techniques (with **NLTK** and **gensim** libraries), prototyped automatic extraction of structured listings data from free-form text descriptions.

Academic Projects

House Price Prediction – Developed a machine learning model that predicts home rent based on various factors, created a database in which the user can enter basic information and requirements from which the price is predicted, as well as a user-friendly webpage in HTML, CSS, and React JS.

Recommender systems - Built recommendation system on amazon metadata using social network analysis & Sentiment analysis on twitter data.

Cervical cancer prediction – This project is to Predict the cervical cancer and identify its important predictors using SVM based approaches, gained accuracy up to 94%. Tools and Technologies Used: SVM, Power BI, Python.

Perfect and Complete Breakfast - Analyzed cereals data based on their rating and predicted the best cereal company using regression algorithms. Tools and Technologies: Machine Learning, Python.

Website on Disaster Management for Tamil Nadu Government - Tools and Technologies: HTML, CSS, JavaScript and its frameworks for front-end. Used PHP, MYSQL for back-end.

Awards and Recognition

- Awarded with **Digital Literacy Explorer** Badge from HP company.
- Certified member of **CSI** (Computer Society of India), organized few technical events to the freshmen students in undergraduate students.

Leadership and Volunteer Experience

- Student representative of Face prep in SASTRA
- Daksh coordinator in SASTRA's yearly cultural fest