

Chandrabhas Gabbita

Stony Brook, New York | gsschandu@gmail.com | 631-710-8613

EDUCATION

Stony Brook University | Stony Brook, NY

May 2023

B.S. in Physics; 2nd major in Mathematics

GPA: 3.63

Relevant coursework: Machine Learning for Quantitative Finance (Graduate), Data Analysis, Statistics, Advanced Linear Algebra, Abstract Algebra, Real Analysis, Calculus 4, Partial Differential Equations, Computation for Physics and Astronomy, Data Structures and Algorithms

Certifications: Google Advanced Data Analytics Professional Certificate

SKILLS

Programming Languages: Python, R, SQL, MATLAB

Technologies: Linear Regression, Logistic Regression, Decision Trees, Regression trees, Naïve Bayes and Gaussian Naïve Bayes Classifier, Gradient Boosted Trees, Adaboost Trees, Random Forest, k-means clustering, TensorFlow, Convolutional and Feed-Forward Neural Networks, Moving Averages, Kernel k-Nearest Neighbors, Ridge and Lasso Regression.

Python Scientific libraries: NumPy, SciPy, TensorFlow, Scikit-learn, Pandas, Matplotlib, Seaborn, XGBoost.

RELEVANT EXPERIENCE

Google Advanced Data Analytics Capstone Project | Stony Brook, NY

June 2023 – July 2023

- Built and compared Random Forest and Gradient Boosted Tree Classifier models to predict employee resignation from a Kaggle dataset.
- Performed exploratory data analysis and cross validated both the models to tune hyperparameters. Validated both models against each other to determine the best model. Produced visualizations to share results.

Senior Lab Course Experiment | Stony Brook, NY

February 2023 – March 2023

- Collected statistical frequency data from a Compton Scattering experiment as part of senior lab.
- Performed exploratory data analysis, produced visualizations, cleaned the dataset, corrected for systematic errors, and developed statistical models based on the nature of data.
- Used weighted regression to fit gaussians to data and obtain relevant quantities and performed a chi-squared goodness of fit test to verify accuracy of fit.

Stony Brook Cosmology Group | Stony Brook, NY

September 2021 - May 2022

Undergraduate Student Researcher

- Assisted Prof. Anze Slosar to cleanse 1 TB of data containing more than 100,000 rows generated by the BMX radio-telescope to extract only relevant signals.
- Implemented Linear regression, Savitzky-Golay Filter, and general curve fitting in the process.

Stony Brook Plasma Physics Group | Stony Brook, NY

June 2021 – August 2021

Undergraduate Student Researcher

- Helped the team decide on whether interpolation was the right method to improve field simulation resolution.
- Designed and implemented multiple interpolation techniques using SciPy and NumPy to determine the ideal method including quadratic and cubic Splines and Radial Basis Function interpolation.

VOLUNTEER EXPERIENCE & EXTRACURRICULAR ACTIVITIES

Silver Oaks | Silver Oaks High School, Hyderabad, India

April 2019

High School Tutor

- Enabled more than 50 high schoolers to excel at college level math.

Stony Brook University RHA | Stony Brook, New York

August 2021 - December 2021

RHD Senator

- Communicated Campus student government expectations with the residence hall council members.
- Voted on hall council budget matters at the student government based on hall council needs.

Stony Brook CSTEP | Stony Brook, New York

August 2022- December 2022

College Tutor

Student Tutor for underrepresented students at Stony Brook University