

# Divya Sri Thala

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## EDUCATION

**Stony Brook University**, Stony Brook, New York GPA:3.4/4  
Bachelors of Science in Information Systems and Applied Math's and Statistics Expected: May 2022

- Deans List(Fall 2018, Spring 2019, Spring 2020, Fall 2020); Sigma Beta Honor's Society (Member Since Feb 2019)
- Coursework: Data Analysis, Data mining, Data structures and algorithms, User interface development, Benevolent computing, Linear Algebra, DBMS, Introduction to Data visualization, Financial Mathematics, Java, Python

## SKILLS

- Programming: Python, Java, SQL, HTML, Adobe Photoshop, Microsoft office, D3.js, R language, Statistical Analysis
- Software tools: Tableau, python libraries:(Numpy, Pandas, Scikit-learn, Seaborn, Matplotlib), Inkscape

## PROFESSIONAL EXPERIENCE

**Undergraduate Student Researcher -Data Science** **Jan'21-Present**

- Performing research in data analysis and mining using Python (NumPy, Pandas, Scikit-learn, Seaborn) and visualization using Tableau
- Training and testing the data using Naive Bayers, Random Forest, Linear Regression, Logistic Regression, K-fold validation and designing the model for the given data.
- Prediction analysis and business analytics.

**Prithvi Information Solutions Ltd., India - Data Analyst Intern** **June'21 – Aug'21**

- Generated tableau worksheets, built dashboards and interpreted the data using the various data visualization methods to meet the vendor's technical requirements. The visualized data was considered as a key input on taking a decision on the vendor's project proposal.
- Learnt about real time implementation of various statistical methods in data extraction, mining, cleaning, analyzing, and interpreting the data.

**Career Center Intern, Stony Brook University** **Feb'20-Dec'20**

- Gathered the data for 1000+ students about career competencies they have and the major they chose at Stony Brook University and analyzed this data and created a website regarding the courses they can choose based on their career competencies.
- Made this website by using HTML, JavaScript, Inkscape, Adobe Illustrator.
- Evaluated and summarized empirical literature in preparation for Career Center Webinars.

**Shree Software Pvt Ltd- Front End Web Development Intern** **Jun'19-Aug'19**

- Learnt to design, develop and debug user interface and integrate data from various back-end services and databases based on the technical needs of the vendor.
- Worked in coordination with the teams to design and develop the web pages and to customize multiple resources.

## PROJECTS

### Calculator | Python

- Created a calculator in python using the lambda's function.

### Bakery Management Systems | Python

- Created a Bakery Management System in python using arrays, built-in python functions and used the python GUI library Tkinter.
- Billing operations became more organized and less time consuming.

### MyPortfolio Website | JavaScript, HTML, CSS

- Made a portfolio website which consists of the different web pages like about, skills, work experience etc and designed the complete website using JavaScript, HTML and CSS

### Predicting Car Price | Python, Heroku, HTML

- Created a machine learning model on flask, which predicts the selling price of the car using the car dataset from kaggle.
- Used different libraries like seaborn, matplotlib, sklearn, ExtraTreesRegressor, RandomForestRegressor while making this model. Made this machine learning model in jupyternotebook, Spyder, and used HTML as well.
- Have done end to end deployment using Heroku and launched the web app

### **Journaly | CSS, JavaScript, HTML**

- Made an app called journaly that allows users to pen down their thoughts and helps them to keep a track of your feelings every day. Apart from that this app also has a feature where the users can talk to a counselor and the counselors can access their logs and can better analyze what the user is truly feeling.
- Used CSS, JavaScript, HTML to design the app.
- Got the Best Social Impact Hack price for this along with \$250 prize money at hack@CEWIT.

### **Visualization Dashboard | D3.JS, HTML, CSS**

- Made a visualization dashboard on predicting the car price using d3.js, HTML and CSS in visual studio code. I have also made various bar charts, PCA plots, Scree plots, MDS Plots using the dataset.

### **One Predictor Linear Regression | R Language**

- Used two datasets that contains dependent and independent variables respectively and performed imputation subroutine to handle the missing data present in the dataset by using the mice package in R language.
- After the transformations of the independent and dependent variables, binned the data and applied the lack of fit test to find the regression model.

### **Bank note is forged or not | R language**

- Used regression to find if the given bank check is forged or not using the banknote.CSV dataset
- Performed multivariable regression analysis and mining (Data cleaning, used neural network package, perceptron model, logistic regression model, randomforest, MeanDecreaseAccuracy, full grown tree using rattle, optimal pruned tree) using R language.

### **Human Behavior Data Analysis Project | R language**

- Used Multiple regression to find the dependence of depression on gene-environmental variables.
- Performed multivariable regression analysis and mining (with stepwise regression, transformations, randomforest(Fully grown tree, optimal pruned tree, perceptron model ) using R language.

### **CS History Database | FileMaker and HTML**

- Made an online archive database for the Stony Brook University CS history Museum. It is a searchable online database of the CS History Museum's calculator assets. The database contains information as well as images of each asset and some of the images will be 360 degree interactable product viewers that allow the user to see an object from all angles.
- Users should be able to view the database application via the web without having to install any additional software. Created this Database along with 2 team members using Claris's FileMaker and HTML.

## **Leadership**

### **Lead Tutor, Stony Brook University**

**Aug'19-Present**

- Led a team of 6 tutors including the new and returning tutors and provided support, answered questions, and provided feedback to the tutors.
- Evaluated the new tutors by Shadowing the new tutors' tutoring appointments and provided effective feedback.

### **Peer Assistant Leader, Stony Brook University**

**May'20-present**

- Have led a team of 16 Orientation Leaders (OLs) and performed small group activities like small group projects, team building activities, and problem-solving activities.
- Designed and led training sessions on topics such as OL duties, team work along with other PAL leaders
- Lead and supervised assigned OL team in preparation for the Orientation Sessions and tasks.
- Planned and implemented programs in collaboration with fellow PALs for leadership enhancing workshops.

**Divya Sri Thala**

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23/11/2021

To,  
The Recruiting Team,

I'm excited to learn about the position of summer Internship through the website. I'm an undergraduate senior pursuing Bachelors in Science at Stony Brook University, New York. I find that my academic knowledge and accomplishments meet all of the requirements listed in the job description. I am currently working as tutor for Applied Mathematics and Statistics at Stony Brook University. I am also working as Teaching Assistant for AMS courses. In this 1 year experience as a Tutor and Teaching assistant, I improved students study skills and crafted individual plans that support the learning process of most of the students. I am comfortable dealing with all the races of students and assessing their learning capabilities I strongly believe that I have the right set of skills and attitude to take on this challenging opportunity. I have excellent communication skills and I enjoy working in teams by coordinating with all other tutors. I had completed Post Graduate Diploma in Data Science and Artificial Intelligence and I am involved in doing project on Data science and Data visualization by Tableau. I think if I would get a chance to do internship in your company, it will be helpful in upgrading my skills which will be useful in my future endeavors.

Currently I hold a 3.7 GPA in my freshman first semester, 3.6 in my freshman second semester 3.4 GPA in my Sophomore first semester, and 3.6 in my second semester. I have strategically focused my coursework in the following areas i.e Python, Java, Tableau, Foundations of computer science, Data structures and algorithms, calculus 1 and calculus 2, calculus 3, Probability and Statistics and Linear algebra in Stony Brook University.

Please accept the resume and feel free to contact me at your earliest convenience. I appreciate your time and consideration. Have a wonderful week ahead.

Thanks and Regards,  
Divya Sri Thala