

PARTH SHAH

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Education

- **The University of Texas at Austin (Class of 2021)**
 - Bachelor of Science in Computer Science, Certificate: Applied Statistical Modeling, GPA: 3.84
 - Coursework: Data Structures (Spring 2018), Discrete Math (Spring 2018)
 - Future coursework: Computer Architecture (Fall 2018), Operating Systems (Spring 2019)
 - Programming Languages: Java, Python, HTML, CSS
 - Software: Git, Anaconda, Docker, Hadoop

Work Experience

- **H&R Block- Software/Data Engineering Intern** (Kansas City, Missouri, Summer 2018)
 - Generated Pricing curves with 4 years of tax return data with PySpark and Hadoop(HDFS). Researched and implemented ML algorithms to predict whether a client would return the following year based on a multitude of features. Used software such as sklearn, spark, and pandas to move the analytics team to modern technology.
 - Created python scripts with PySpark to clean, filter, and analyze client data. Plotted Data to investigate new tax season revenues.
 - Researched and implement new event logging with a package called Serilog for the H&R Block Central Billing System in C#. Created new screens for the Block Pay Web app with Angular and Boot Strap.
- **Cocolevio LLC - Associate Software and Data Engineer** (Austin, TX; Spring 2018)
 - Designed and Developed a modern data visualization platform for Boeing and Visa with Bokeh(Python). Used NLTK to analyze sentiment in the pilots notes and created models to classify different errors in test flights with numeric sensor data.
 - Using MySQL, Bootstrap, and Java to develop CRM software for local business in Austin. Creating containers using docker to facilitate this process and efficiently deploy applications. (Dell Medical Center, Boeing, Pluckers)
 - Designed and worked on the company website with Angular and Bootstrap.
- **Center for Advanced Professional Studies - Programming Instructor** (Overland Park, KS; Summer 2015 & 2016)
 - Worked with middle and elementary school students on building Android apps with the MIT app launcher. For younger students, I implemented Scratch into the curriculum.

Projects

- **Housing Prices Prediction Modeling @Kaggle**
 - Used advanced regression and other statistical models to predict the price of a house from a certain list of features
 - Used Pandas, Scikit-learn, and matplotlib to clean data for outliers and null values
 - Performed the best with the a gradient boosting algorithm called xgboost.
- **Alternate Route Optimizer for Road Trips – Yelp and Google API**
 - Built an algorithm in python that finds alternate routes based on specific stores the user specifications and weather conditions
 - Uses Yelp and Google API's to find major clusters of retail so the user can have a pleasant driving exp.
 - Calculates the variance to make sure the route has retail that is evenly spaced so the driver has a plethora of possible stops. The Optimizer also checks to routes for extreme weather conditions like storms, rain and maps to the exact hour the car will be driving through there.
- **Voice Activated Music Download and Metadata Scraping – Web Scraping**
 - Successfully developed a python script that downloads any song with all Metadata/Album Art for free.
 - The script recognizes the user voice and automates all parts of the download and scraping process.

Extracurricular Involvement

- **Code Orange - Mentor** (2017-Present)
 - Mentored, engaged, and guided students in the Austin area about fundamental programming. Using Scratch, I will implement a curriculum that allows kids to learn programming at a young age.
- **Machine Learning and Data Science** (2017-Present)
 - Learning basic Machine Learning and data science concepts and implementations in Python. Exploring tensor flow and numpy libraries. Making data oriented models with Panda, numpy, matplotlib libraries.

Additional Information/Accomplishments

- Languages spoken: English (native), Hindi (intermediate), Gujarati (intermediate), Spanish (intermediate)
- FRC Robotics 2410 Iowa Regional Winner/ Texas Fish Bowl 4th place
- Published artist for oil paintings (10 years) | Classically trained in Trumpet (9 years) | Cooking for the past 7 years