SHEETAL BONGALE

Data Scientist | Data Analyst

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EDUCATION

Data Analysis and Visualization Bootcamp   **Nov 2019 – May 2020**
McCombs School of Business, University of Texas at Austin
Advanced Excel, Fundamental Statistics, Python Programming, API Interactions, Data Mining, Databases - MySQL, MongoDB, Front-End Web Visualization - HTML, CSS, Bootstrap, Dashboarding, JavaScript, D3.js, Geomapping with Leaflet.js, Business Intelligence Software - Tableau, Big Data Analytics with Hadoop and Spark, Machine Learning, Deep Learning

Master of Engineering - Electrical Engineering   **Sept 2011 – Aug 2013**
University of Cincinnati, Ohio
Computer Architecture, Design & Analysis of Algorithms, Advanced Operating Systems, VLSI Design Automation, Physical VLSI Design, Low power VLSI Design, VLSI Testing and Validation, Biomorphic Systems, Effectiveness in Technical Organization, Management of Professionals, Engineering Economic Analysis.

Bachelor of Engineering - Electronics Engineering   **Sept 2006 – June 2010**
Vidyalankar Institute of Technology, University of Mumbai, Mumbai, India

PROJECTS

Ale-gorithm Beer Recommender System (*Scikit-learn (KNN Baseline), Python Flask, SQLAlchemy, MySQL, Google Cloud Platform (GCP), JavaScript, Plotly.js, D3.js, AnyChart.js, HTML, Bootstrap, CSS, Requests, Beautiful Soup, Postman*)
A collaborative filtering beer recommender system using Surprise and scikit-learn (KNN Baseline) and educator web app developed using over 3.5M Beers and 9M Reviews from Beer Advocate. Ale-gorithm is deployed on GCP.

Scooters in Austin Data Analysis (*Python, Pandas, Matplotlib, GeoPandas, Plotly.js*)
Analyzed the City of Austin's Open Data for 8.4M Shared Scooter Rides and also compared the city's 311 complaints about the same. Created data visualizations and found insights such as popular spots for scooter rides and the correlation to scooter complaints.

Face Recognition Deep Learning (*Python, face_recognition, pillow*)
Developed a face recognition system that can detect faces in images, identify the faces, and even modify faces with "digital makeup" like you've experienced in popular mobile apps.

Car Dealer Feedback Flask Web App (*Python, Flask, SQLAlchemy, Postgres, Heroku*)
Build a Python Flask feedback app that sends data to Postgres database and emails user. Web application was deployed using Heroku.

Data Journalism using D3 (*D3.js, SVG, JavaScript, HTML, CSS*)
Interactive data visualization using D3.js to show some state-level data about three risk factors (obesity, smoking and lack of healthcare) plotted against three perhaps underlying factors (income, poverty rate and age) based on 2014 U.S. Census data.

Web Scraping - Mission to Mars (*Beautiful Soup, Requests, Selenium, Splinter, MongoDB, Flask, Pandas*)
Web application that scrapes various websites for data related to the Mission to Mars using various web scraping techniques. Stored the scraped data using MongoDB and created a Flask template app that will query the database to pass the mars data into a single HTML page.

Climate Analysis – API Calls and Web Visualization Dashboard (*Python, Pandas, Matplotlib, API Calls*)
Build a visualization dashboard and analyzed the weather of 500+ cities across the world, utilizing citipy Python Library and OpenWeatherMap API to understand the relation between latitude and different climate parameters.

EXPERIENCE

ASIC Verification Internship, VeriFast Technologies   **Sept 2014 – April 2015**
Gained hands-on experience in Front end RTL ASIC Functional Verification using System Verilog for VeriFast silicon IP including Test Bench development and running design verification regression tests.

SKILLS

Programming:
- Python
- R
- C
- C++
- JavaScript
- D3.js
- HTML
- CSS
- Assembly
- System Verilog
- Perl

Frameworks/Packages:
- Pandas
- NumPy
- Matplotlib
- Flask
- Flask-SQLAlchemy
- Scikit-Learn
- Big Data Hadoop and Spark

Database Systems:
- MySQL
- MongoDB (NoSQL)

Data Visualization:
- Matplotlib
- Seaborn
- D3.js
- Plotly.js
- Tableau

Data Science:
- Scikit-Learn
- Regression
- Classification
- Clustering
- NLP

IDEs:
- Jupyter Notebook
- Visual Studio Code
- GitHub
- Google Collab/AI

CERTIFICATIONS
- Machine Learning, Stanford, Coursera (Ongoing)
- Complete Python Bootcamp, Udemy
- Complete SQL Bootcamp, Udemy
- Deep Learning: Face Recognition, LinkedIn