

Tapan Desai

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INTERESTS

Data Science, Data Analysis, Machine Learning, Statistical Data Modelling, Data Mining, Recommendation Systems, Artificial Intelligence, Natural Language Processing with Smart Devices (Alexa, Google Home, NEST etc.), DB Administration etc.

TECHNICAL SKILLS

Programming Languages: **Python (2 and 3)**, Java (J2EE), R, C.
Database: **SQL**, Oracle Express, MySQL Workbench, MS Access, FileMaker Pro, MongoDB
Web Technologies: **HTML5, CSS3, XML, JSP**, Bootstrap, JSON, WordPress CMS
Tools: **PyCharm**, Eclipse, MS Office
Other: **Apache Spark, AWS EMR**, LEX API, Flask, REST APIs, OAuth

EDUCATION

- **Master of Science (MS), Computer Science.** (Aug 2016 - Dec 2017)
University at Albany, State University of New York (SUNY), Albany, NY.
- **Bachelor of Engineering (BE), Information Technology.** (Jul 2012 - Jun 2016)
Gujarat Technological University, Gujarat, India.

WORK EXPERIENCE

- **Data Analyst Intern at New York State Dept. of Environmental Conservation, Albany NY.** (Apr 2017 – Present)
 - Data Analysis (Processing and Statistical modelling) of Division of Water's large datasets using **Python** and **R**.
 - Data Visualization and Outlier detection of Water Quality and TMDL (Total Max Daily Loads) data.
 - Reporting and Assessment of data to **Federal Government (EPA)**. using various SDKs and APIs.
 - Development and maintenance of the Database and File Management Systems across entire New York state.
- **Teaching Assistant at College of Engineering & Applied Sciences, University at Albany.** (Jan 2017- May 2017)
 - Teaching assistant to Prof. Carol Cusano for the course 'Computing and Information' with Undergraduate-level Python programming, HTML and Web Technologies.
 - Tutoring students, grading assignments and taking office hours were my primary responsibilities.
- **Software Developer Intern at Softvan, Ahmedabad** (Jul 2015- May 2016)
 - Full Stack Web Application development according to client requirements.
 - Developed multiple web applications using like HTML5, CSS3, JSP/JavaScript, Servlets, AWS EC2, and MySQL Database.

PROJECTS

- **WIS - Water Information System (Data Analyst & Primary Developer)** (May 2017 – Present)
 - **Python 3, FileMaker (Statistical Data Analysis using Pandas, matplotlib and Database administration.)**
 - WIS is a complete database and file management system used by the New York State Dept. of Environmental Conservation.
 - It uses a combination of tools such as Oracle, FileMaker, MS Access for data and file management.
 - While the data is analyzed and visualized using Python, R Studio, MS Excel and ArcGIS.
- **Spotify® Playlist Classification (Data Scientist)** (Jan 2017 – May 2017)
 - **Python 2 (SpotiPy, PyEchoNest, Pandas, NumPy, StatsModels)**
 - A classifier model built using various regression techniques that can differentiate between different genres of songs.
 - The training data and testing was collected using Spotify®'s Web API. Inputs were given in form of URIs.
 - EchoNest API was used to calculate song attributes which then defined whether a song belonged a specific genre.
- **Product Qualitative Analysis (Data Scientist)** (Jan 2017 – May 2017)
 - **Python 2 (Scikit-learn, Pandas, NumPy, matplotlib, JSON)**
 - A prediction system that analyzes the quality of a product based upon previous quality data of similar products.
 - Primarily built for predicting quality of Alcoholic beverages such as Red and White Wines from their physio-chemical qualities.
 - Used for production of new high-quality wines and for enhancement of products.
- **AirTicketSwapper (Full Stack Web Developer)** (Jan 2017 – May 2017)
 - **Java, SQL (JSP, JavaScript, BootStrap, MySQL, PayPal)**
 - A web application for re-selling and purchasing air-tickets. (Similar to Stub-hub.)
 - Users can upload their air-tickets which can be transferred to potential new buyers without dealing with Airline companies.
 - Worked on both ends of the ticket selling module and Admin approval of tickets of the application.

WORKSHOPS AND SEMINARS

- SCRUM methodology for Agile Software Development. (By KeyCorp/KeyBank)
- Emerging Trends in IOT. (At Indian Institute of Technology, Gandhinagar)
- Assessments in R. (By NYSDEC)
- The AWS Management Console (At Softvan)