Aakash Sheth

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PROFESSIONAL SUMMARY

- 3+ years of experience executing data-driven solutions to increase efficiency, accuracy and utility of internal data by data modeling, machine learning and automation algorithms.
- Certified Six Sigma Green Belt professional with a master's degree in Industrial Engineering having expertise in process design and automation.
- Experienced at performing statistical analysis, developing analytical tools, and Django REST API web applications.
- Expertise in Python, R, SQL Excel, VBA, Python, SQL, Power BI, zoho project management tool technologies.

EDUCATION

Master of Science in Industrial Engineering   CGPA: 3.76/4.0
University of South Florida, Tampa, FL   May 2019

Bachelor of Technology in Metallurgical Engineering   CGPA: 7.0/10
College of Engineering Pune, Pune, MH, India   May 2016

SKILLS

- Programming Languages: **Python, SQL, R, VBA, Shell Script, Deluge, html/css.**
- Data Science: **Excel, NumPy, Pandas and Matplotlib, Zoho Analytics.**
- Data Visualization: **Power BI, Google data studio, Python (Matplotlib, Seaborn).**
- Web Development: **Django, Django REST API Framework.**
- Cloud: **AWS (EC2, Lambda, ECR)**
- Other: **Git, Docker, Figma, Project Management Tool**

WORK EXPERIENCE

Data Scientist, Defynance (Tampa, FL)   July 2020 - Present
Tools: Python, Excel, VBA, SQL, HTML, CSS, JS, Git, Travis, AWS (EC2), Project Management Tool.

- Develop a web application to service refinancing, investment fund and resource marketplace using Python Django web framework, docker, Kubernetes, AWS lambda, EKS and MySql.
- Develop methodology for creating Professions Profiles for risk analysis.
- Initiated and Developed a business requirement document (BRD) for Multi-Class User serverless web application.
- Succeeded in reducing quote processing time from 24 hours to 2 mins by developing a REST API using forecasting algorithm, Django REST framework, Github, Travis, AWS EC2, and SQLite.
- Determined operations KPI's and created an analytical dashboard to for real-real time tracking using Zoho Analytics.
- Initiated company digital library program to share books and research papers, added as benefit for all the employees.
- Designed and developed application prototype to reduce frication in customer onboarding using low code platform, successfully serving initial 100 users and helped to get admitted into 2nd biggest startup accelerator program in USA i.e. TechStars.
- Developed a comprehensive tool to under write refinancing candidates and calculate customer lifetime value using Excel, python win32, REST API, Zoho CRM.
- Designed and developed web-based calculators to capture and analyze potential customer profiles.

Business Analyst - Automation, Collabera- Citigroup (Tampa, FL) (Contract)   February 2020- September 2020
Tools: Python (Jupyter Notebook), R programing, Advance Excel, Power point, Outlook

- Reduced processing time from 3 hrs to 5 mins by automating weekly RWA upgrades and downgrades analysis process using python and excel. Helped saving of 180 hour/ annum.
- Automated Mitigant Replenishment Analysis process helping to extend analysis to more mitigant types than usual, Reduce total time from 6 hours to 5 mins.
- Wrote python scripts to automate Actuals Downgrade Impact Analysis for Citi ICG wholesale banking team.
- Performed advanced quantitative analysis and model validation to support CCAR reporting.
- Developed Power BI dashboard for forecasting data validation of about 1 million data points.
- Developed a tool to automate business decks using power point presentation and python (pandas, win32, matplotlib) and excel.

Data Science Analyst Intern, Redperit LLC. (Tampa, FL)   July 2018 - May 2019
- Performed financial modeling to analyze different features of Defynance income share agreement.
- Developed a methodology to calculate prepayment amount for ISA (USP of Defynance ISA).
- Improved data gathering process using **web scrapping and automation** algorithm using **python** libraries Beautifulsoup, Selenium, and Pandas to gather 220,000+ records by crawling **221,400+** pages.
- Performed data mining and econometric research for ISA investment fund and an annuity-based product.

Assistant System Engineer, TATA Consultancy Services (Pune, MH)   January 2017-July 2017
Tools: SQL, C#, HTML/CSS, Microsoft Visual studio.
- Developed a bank transaction record system prototype using Microsoft SQL Server, C# and MVC framework.
- Developed database schema and queries for capturing the status of inter-bank transfer transactions.
- Extracted and analyzed data from three large DB schema, provided **SQL** scripts to rectify records.

OTHER PROJECTS

Future transaction classification Kaggle challenge.
- Developed a **LGBM model** for predicting customer transaction probability using 200 anonymous features provided by Santander bank.
- I built this model with different types of **regularizations** (L1 and L2), utilizing Python libraries such as NumPy, LGBM and matplotlib. I ranked in top **10%** teams in this Kaggle competition.

Personal Website and Data Science Portfolio
- Developed a personal website using Jekyll web framework and deployed it on Github site.
- Here I write blogs on topics like data science, predictive analytics, finance, stock investment, and some random topics etc.

Online Course Delivery Process Improvement
- Created current state diagram and Ishikawa diagram to find out bottle necks in the process.
- Perform hypothesis testing for proposed process automation solution.

Data Analytics for comparing 2 investment opportunities. (Link)
- Performed statistical analysis of both investments using Sharpe Ratio in python and interpreted results of analysis.

Python based google maps API to extract location details.
- Built a python module to gather location data related to any entity listed on google maps utilizing web scraping.
- This module currently generates csv file with attributes like address, latitude & longitude values, and type of property. Very useful to perform real estate valuation analysis.