Akshay Shah

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SUMMARY

Data enthusiast with four years experience in software development for banking and finance application with extensive knowledge of backend systems, analysis of large datasets, Python and SQL.

CORE COMPETENCIES

Programming: Python (Pandas, NumPy, Scikit-Learn, Matplotlib, OpenCV), R, C, Pro*C, Unix shell scripting, debugging skills.
Database: Oracle SQL, MySQL, PL/SQL.
Tools: Jupyter Notebook, Spyder, PySpark, Databricks, Tableau, Power BI, JIRA, Git, Bitbucket, Excel, Eclipse, RStudio, Putty.
Analytics skills: Regression, Classification, Hypothesis testing, Decision Tree, Random Forest, Nearest Neighbor, K Means clustering, ANOVA test, Time series forecasting.

EDUCATION

Georgia State University, J. Mack Robinson College of Business   Atlanta, GA
Masters in Data Science and Analytics   Aug 2021 - Dec 2022

Coursework: Data Programming, Statistics, Database Management, Predictive Analytics, Scalable Data Analytics, Deep Learning, Data Visualization.

National Institute of Technology Agartala   Tripura, India
Bachelor of Technology in Electrical Engineering   Jul 2012 - May 2016

EXPERIENCE

Graduate Research Assistant | Institute of Insight, J. Mack Robinson College of Business | Atlanta, Georgia
Mutual Fund Disclosure Research Lab   **Jan 2022 - Present**

- Tokenized texts using **python scripts** to identify keywords and **n-grams** with maximum frequency for exploring mutual fund disclosure documents (500k datapoints) in the wake of emergency situations like COVID.
- Developed logic to label texts based on keywords for analyzing variations across documents over last 10 years for various fund families, using **python, tableau and excel**.

Carputty project   **Aug 2021 – Dec 2021**

- Implemented **linear regression model** to estimate cost of various scheduled maintenance for vehicle with an **accuracy** of 93.7%.
- Devised solution to predict expected repair costs for a vehicle for one year leveraging **time series model**, with MAE of 0.2.

Associate Consultant | Virtusa | Mumbai, India   **Nov 2016 - Jul 2021**

- Performed extensive data analysis using **SQL**, **Python**, and **Tableau** to assist client in defining business strategy for rolling out various automation projects for import and export trade products.
- Supervised an 8-member team to design and deliver computerized invoice lodgment and auto-payment processing using **Scaled Agile Framework (SAFe)** and reduce overall time by 90%.
- Generated audit trail reports using complex **stored procedures**, **packages**, and **triggers** to convey 100% transactional information to the Central bank.
- Created and deployed various python and shell scripts for hotfixes, and utilized **query normalization** and execution plans to validate operational feasibility of database system.
- Collaborated with a 10-member team to replace manual processes with automated transaction processing, credit earmarking and bill liquidation processes, using **C**, **Pro*C**, **Oracle SQL**, and **Python** to boost performance by 85%.
- Worked with business analysts to develop **dashboards** with filters, parameters and calculated fields on **Tableau** to facilitate data driven decision making during client meetings.
- **Awarded** the prestigious 'PIRL' award, given to the top 5 percent of engineers based on total impact to the firm, for **spearheading** global projects with defect-free delivery.

ACADEMIC PROJECTS

Kickstarter: Exploratory Data Analysis | Python | Machine Learning

- Built machine learning models: Logistic Regression, KNN, and Decision Tree, to increase success rates on a crowdfunding platform by examining historical data, with 200,000+ data points, and predicting chances of a project's success.
- Evaluated different machine learning models using Scikit learn based on confusion matrix, precision, recall, accuracy, and F1 scores, to select the best performing model with an accuracy score of 94%.

Data Management for Analytics (Estimize.com) | Python | Web Scraping | MySQL

- Leveraged selenium and beautiful soup to scrape data from Estimize.com to gather incremental financial information for forecasting earnings.
- Created MySQL database with scrapped data to analyze company performance and query requisite information to determine various analysts' accuracy scores.