**DEVEN CHHETRI**

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**PROFESSIONAL SUMMARY:**

* **5+** years of experience as a **Data Engineer/Analyst** with strong background in computer science with proficiency in **Data Analytics, Data Visualization and Machine Learning**.
* Expertise in **Data Cleaning** /**Data Munging** /**Data Wrangling**.
* Performed sophisticated data frame operations in **Python** using packages **Numpy**, **Pandas** etc.
* Proficient in analyzing and interpreting results using **inferential statistics** / **descriptive statistics**.
* Created powerful visualizations in **R** (**ggplot**), **Python** (**matplotlib**) and **Tableau**.
* Expertise in **Data Modeling** and deriving insights by leveraging data.
* Proficient in **statistical testing** methods like **hypothesis testing**, **correlation** and **co-variance**, **significance testing** using **P-values, t-tests** etc.
* Have implemented **machine learning** algorithms in **Python** (**scikit-learn**) and **R**.
* Experience in designing **PL/SQL procedures** based on business requirement and to perform **data analysis**.
* Good understanding of **Data Structures and Algorithms**.
* Expert in **Normalization** of database (**1NF**, **2NF** and **3NF**).
* Skilled in understanding of business problem and designing **Entity Relationship diagrams** (**ER diagram**).
* Experience working in **Agile, Scrum** and **Waterfall** methodologies.
* Proficient in **SQL Server Reporting Services** (**SSRS**) and **SQL Server Analysis Services** (**SSAS**).
* Experienced on a wide array of projects written in object-oriented **Python** and **Java**. Expert knowledge of **Python.**
* Exposure in optimizing and **fine tuning** of **SQL** queries**.**
* Hands on experience in **web scraping** with Python (**Beautiful Soup**).
* Acquainted with Text **Sentiment Analysis** and NLP.
* Exposed to all aspects of **software development life cycle (SDLC)** such as Analysis, Planning, Developing, Testing, and Implementing and Post-production analysis of the projects.
* Experience in working on source control tool **Git.**
* Proficient in IDEs like **Pycharm**, **Spyder**, **Eclipse** and **Rstudio for** implementing precise programs**.**
* Ability in UI development using **HTML5, CSS3 and JavaScript.**
* Familiar with running web services on **Amazon Web Services** (**AWS** – S3, EC2)
* Accustomed with **Hadoop** and hadoop framework.
* Created Physical Data Model (PDM) for the **OLTP** application using ER Studio and put data into **OLAP** cube for faster processing and analysis.
* Expertise in Querying RDBMS such as **Oracle, MY SQL and SQL Server** by using SQL for data integrity.
* Experience in **training** and **mentoring** new data analysts.
* Expertise in **troubleshooting** the problems generated while building, deploying and also in production support.
* Participated in **on-call rotation** to provide **24×7 technical support**.
* Excellent interpersonal and client relationship skills. Proven communication, presentation skills and leadership skill with strong work ethic.

# Technical Skills:

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| **Programming Languages** | Java, Python, C |
| **Analytical Tools** | R, Python, SPSS, SAS, Beautiful Soup (Web Scraping), Excel |
| **RDBMS** | Oracle, SQL SERVER, MYSQL, SQLite, MongoDB (NoSQL) |
| **Web Servers** | HTML, CSS, JavaScript |
| **Version Control Software** | Git |
| **Data Analysis Techniques** | Data Wrangling (Cleaning), Regression, Decision Tree, Naive Bayes, Gradient Boosting, XGBoost, SVM, Neural Network, Hierarchical and k-means clustering, Discriminant Analysis, PCA, NLP, Association Rule Mining, Market Basket Analysis (MBA), predictive modeling, Statistical Analysis |

**Education:**

**University of North Carolina, Charlotte, NC** – Masters in Computer Science (2017)

**Vellore Institute of Technology, Vellore, India** – Bachelor of Technology, Information technology (2012)

**PROFESSIONAL EXPERIENCE:**

**Schneider Electric, Andover,MA May 2017 – Mar 2018**

**Data Engineer**

**Responsibilities:**

* Provided **data analysis** for client engagements across a range of technical industries.
* Assisted to build analytic tools to manage data and streamline data analyses using **R** and **SQL Server**.
* Develop framework, **metrics** and **reporting** to ensure progress can be measured, evaluated, and continually improved.
* Support the development of performance **dashboards** on **Tableau** that encompass key metrics to be reviewed with senior leadership.
* Built complex **SQL** queries, generated reports from different sources for various business needs.
* Provided sales forecasting using **predictive models** and what-if scenarios.
* Created **statistical models** (**Machine Learning** algorithms) and **cluster** groups (**K-Means**) for target marketplaces
* Worked closely with data scientists to assist on **feature engineering**, model training frameworks, and model deployments.
* Used **Python** to extract information from XML files and wrote Python scripts to **clean raw data**.
* Performed **data extraction** and **data wrangling** using **Pandas** and **Numpy** modules in Python.
* Maintain database instances and execute SQL queries for **data validation**.
* Performed **aggregation** and **missing value imputation** using SQL and Python.
* Experience in using **PyCharm** editor for writing the python scripts which helped in code analysis, debugging and integrated unit testing.
* Prepare workflow **document reports** for future reference.

**EMC Corporation, Bangalore, India Feb 2015 – Jul 2016**

**Data Analyst**

**Responsibilities:**

* Analyzed business data on daily basis and resolved data discrepancy to improve **data quality**
* Assisted database team in revamping the **database** from scratch and created **ETL** workflows on the existed data.
* Manipulated various tables within **Oracle SQL** to obtain desired data for application.
* Predicted customers preference based on order history to maximize sales efficiency using **logistic regression.**
* Identified the products with high risk of loss and updated inventory using MS **Excel** and MS **Access**.
* Supported customer service department and increased customers' **positive feedback** rate from 87% to 93%
* Worked in conjunction with development team and senior management in preparation of data mapping reports, validation reports, and **business reports**.
* Contributed in ensuring all implementations consistent with **Software Development Lifecycle** (SDLC) standards.
* Created Dashboards in **Tableau** using features such as worksheets, functions and actions.
* Trained and **mentored** other Data Analysts
* Involved in **troubleshooting** and **fine-tuning** of databases for performance and concurrency.
* Initiated pilot projects for various data science tasks including advanced **NLP** and **neural nets.**
* Worked in **Cross Functional team environment** and capability to handle **multiple projects** simultaneously  
  including Onsite Offshore co-ordination

**Cognizant, Bangalore, India Nov 2013 – Jan 2015**

**Data Analyst**

**Responsibilities:**

* Actively monitored database for any issues and **troubleshooting** of level 1 issues.
* Programmed **complex SQL queries** for **Views, Functions, Triggers,** and **Stored Procedures**.
* Involved in designing and developing reports in **MS SQL Server** environment by developing **SSRS** reports and managing dashboards on **Oﬃce 365**.
* Created **SSAS** Tabular Models for sales reporting.
* Created incident documentation that includes information about the results of the **root cause analysis**, approvals.
* Involved in performance **tuning** of **ETL** jobs and **SQL queries**.
* Performed and **visualized** analysis of the export-import databases with **Tableau**, **Pivot tables** in **Excel.**
* Produced reports and/or data sets for **ad hoc requests.**
* **Trained** new team members to understand marketing concepts and processes and to effectively use **Excel** and other tools.
* Executed **SQL** Queries with all types of **Joins** to validate data from backend.
* Performed **regression** analysis to see the factors causing payment defaults using Excel.
* Provided **24 X 7** Production Database **on Call Support** on rotation basis

**Cognizant, Bangalore, India May 2012 – Oct 2013**

**Systems Engineer – Storage/Database**

# Responsibilities:

* Managed storage environment by coordinating with developers, **DBA**s, and other teams to determine storage requirements and to optimize it.
* Allocated/de-allocated space from various storage products, fabric troubleshooting, and basic switch configurations, and handled all incidents/requests within defined **SLA**s under **ITIL** framework.
* Modeled EMC Storage solutions after analyzing and assessing customer data and performance criteria, and providing them to **Presales** field within defined SLAs and quality standards.
* Involved in coordination with other cross-functional teams to execute critical production **Change, Problem** and **Incident** Response procedures towards compliance and assuring seamless Service Delivery.
* Eﬀectively size newer and better storage solutions for core EMC arrays, Array upgrades, competitive array replacements using **Engineering** **best practices**.

**ACADEMIC PROJECTS:**

**Loan Default Risk Prediction**

* This was a **Visual Analytics** project under the category of threat intelligence. Used lending club data to predict whether a loan applicant may default in the future. Tried and tested various models to ﬁnally proceed with **Decision tree, Logistic Regression, XGBoost** and Survival Analysis. Used **Tableau** extensively for EDA (exploratory data analysis).

**Cluster Analysis**

* Used McDonald dataset to do a thorough cluster analysis using **hierarchical** and **k-means** clustering on **SPSS** to compare and interpret the results using demographics and psychographics of the segments.

**Classiﬁcation based on Fragile State Index**

* Used Fragile State Index data to ﬁrst augment a few related variables based upon research and then to classify various countries using diﬀerent **classiﬁcation** and **data mining** techniques to label them into decision features based upon nation’s stability. Used **weka** and **excel** extensively for the analysis.