SUNITHA BUSSA

DATA SCIENTIST | SR. SOFTWARE ENGINEER

GET IN CONTACT

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PERSONAL PROFILE

An aspiring Data scientist adept at collecting, analyzing, and interpreting large datasets, developing new forecasting models, and performing data management tasks. Over 13 years of experience as a Software engineer developing software solutions in healthcare domain. Passionate about working with data for data-driven solutions.

Areas of Expertise

- Python, R, R shiny, Cypher, Machine Learning, Pandas
- Microsoft SQL SERVER, NoSQL/Graph database(Neo4j), Access, DB2
- .Net, WCF, WPF, ASP.Net, Visual Basic
- SSRS, Crystal Reports, WebFocus
- SSIS, JavaScript, CSS, XML, HTML
- TFS, VSS, GitHub, Report Caster
- Workday Studio, Report Designer

Individual projects

Dialysis Claims Data Analysis:
Designed and built an interactive R shiny dashboard to present the findings from exploring dialysis patients claims data with various visualizations and raw data.
Dashboard: sunitha-bussa.shinyapps.io/DCI_midcourse/

Predictive Analytics on Insurance Claims:
Designed and built an interactive R shiny dashboard exploring the insurance payments and presenting predictions from machine learning algorithms.
Dashboard: https://sunitha-bussa.shinyapps.io/DCI_capstone/

Education History

NASHVILLE SOFTWARE SCHOOOL
Data Science Bootcamp

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, INDIA
Masters in information Systems

OSMANIA UNIVERSITY, INDIA
Bachelor of Commerce

Technical Education

DATA SCIENTIST, NASHVILLE SOFTWARE SCHOOL   2019 – PRESENT

Intensive data science program learning skills and methods in exploring, analyzing and providing solutions for real world projects. Collected, studied and interpreted various data sets using technologies like Python, R, R shiny, Postgres SQL, Neo4j, AWS.

Exploratory Data Analysis, Data Visualization, story telling, Machine Learning algorithms like PageRank, Support Vector Machines, Linear/logistic/Multivariate regression models, Random Forest, Lasso, Ridge, XGBoost. Used clustering algorithm like K-means, HDBSCAN. Dimensionality reduction techniques like UMAP. Natural Language processing. Webs craping using Beautiful Soup.
Projects:
- Explored hop teaming, NPI and Taxonomy datasets to identify the referral patterns among providers and specializations. Used Neo4j Graph database for analysis and applied centrality algorithm, Page Rank to identify the top providers and top specializations in TN
- Explored and analyzed TN education data set. Used Machine learning algorithms to predict the graduation rate for students in TN high schools.
- Analyzed global and TN earthquake data to identify ares of high risk for earthquakes.
- Participated in Ion Switching Prediction Kaggle competition. Used various ML algorithms
- Participated in Hackathon Challenge to screen grant proposals for Dollar General.

Work Experience

SENIOR SOFTWARE ENGINEER, DIALYSIS CLINIC INC. 2013 – PRESENT
- Designed and developed various software solutions using different technologies.
- Involved in all stages of SDLC working closely with stake holders to gather requirements, prepare use case documents and ongoing training.
- Stored, retrieved, and manipulated data, wrote adhoc SQL queries and provided daily application support
- Extensively wrote stored procedures, triggers, functions, views and database design
- Designed, developed, analyzed, tested, debugged and executed .NET programs for windows desktop and web-based application and modified existing software to optimize efficiency
- Created Acceptance Test plans, Peer reviews, unit testing and peer testing
- Report development using SSRS, WebFocus, Workday Studio, Crystal reports
- Led the report development team. Analyzed data and developed reports for business executives to make informed business decision
- Led modernization of reporting solution leveraging Webfocus's Report caster impacting huge process change within the organization saving significant amount of money and human hours
- Redesigned check printing reports using Workday Studio and deployed them into integrations successfully greatly impacting usability of in-house check printing process generating financial savings to the organization

SR. SOFTWARE ENGINEER, PREMIER ORTHOPEDICS 2009 – 2013
- Designed, developed, tested, and implemented software solutions as well as database objects including stored procedures, views, functions, etc
- Used SSIS to extract data and regulatory data from NextGen and Greenway practice management systems to further utilize into organizations applications

PROGRAMMER, DIALYSIS CLINIC INC. 2006 - 2008

SR. PROGRAMMER, STATE OF TN (ACCENTURE) 2004 - 2005