

Anudeep Vanjavakam

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Work experience

Moulton Niguel Water District, CA, US (Top workplace in OC)

2020 Jul - present

Senior Data Analyst

- Led short and long-range financial planning with senior management reducing 40% of manual processes resulting in AAA rating (Fitch, S&P) and GFOA Award for the company
 - Built and deployed R shiny [apps](#) leading to a reduction in [customer bill](#) and [rebate](#) inquiries by 22%
 - Strengthened financial reporting tools to monitor \$100MM+ investments and cash flow trends saving almost \$2.5M annually
 - Implemented a python-based anomaly detection model to detect (up to 3 months early) meters at risk of failure resulting in savings of \$44K per month for customers
 - Deployed an R-Shiny tool to analyze user behavior and manage a customer acquisition and retention budget of \$350K
 - Coordinated with IT to add database indices on SQL Server that resulted in a 36% reduction in app load times and query processing times creating a better user experience for staff (internal reporting) and customers (website apps)
 - Influenced billing policies for 32 agencies in California by developing an R-Shiny app that generates correlation insights between rate change, surcharge, revenue, and customer bills
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Moulton Niguel Water District, CA, US

2016 Aug –
2020 Jun

Data Analyst

- Improved the efficiency of annual financial reporting by 85% using an Excel model, achieving 'Certificate of Achievement for Excellence in Financial Reporting' GFOA award
 - Automated rate-bill verification process resulting in 86% reduction in manual effort while maintaining a 100% billing accuracy
 - Built a monitoring system that alerts discrepancy between the enterprise billing system and vendor portal saving \$68K
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Skills

Programming: Python, R, SQL

Data Analysis and visualization: Pandas, Numpy, Matplotlib, Seaborn, Plotly, statsmodels, tidyverse, Tableau

Databases: SQL Server, MySQL, SQLite, PostgreSQL, Redshift

Cloud: Amazon Web Services (AWS), Redshift, S3

A/B Testing: experimental design

Machine Learning: Scikit-learn, PyTorch

Natural Language Processing (NLP): Sentiment analysis, Named Entity Recognition, spaCy, DistilBERT, Transformers

Recommender Systems: collaborative filtering, content-based filtering, rank-based recommendations, matrix factorization

Application/Model/Reports/Dashboard Deployment: Shiny, RStudio Connect, Streamlit, Flask

Education

Arizona State University - W.P. Carey School of Business, Tempe, AZ

2015 - 2016

Master of Science (MS-BA)

Business Analytics (GPA 3.97/4)

SRM University, Chennai, India

2009 - 2013

Bachelor of Technology

Major in Computer Science and Engineering (GPA 8.02/10)

Portfolio

[Best Products on Reddit](#): App to search for top voted products based on NER and Sentiment Analysis

[Rate Comparison](#): An R-Shiny tool to easily understand and compare the implications of different rate structures

[Disaster Response ML Pipeline](#): Displays categorized events for directing messages to suitable disaster relief agencies based on user inputs

[Article Recommendation System](#): Article recommendations for users based on their interactions on IBM Watson Studio

Certifications

- Data Scientist Nanodegree – Udacity
 - Machine Learning by Stanford University – Coursera
 - AI Programming with Python Nanodegree – Udacity
 - AWS Machine Learning Foundations - Udacity
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Publications

[The Next Frontier: Individualized Rates Based on Cost of Service](#), American Water Works Association Journal, Nov 2022