# Anudeep Vanjavakam

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#### Work experience

Moulton Niguel Water District, CA, US

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%
- · Developed 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

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

#### **Skills**

Programming: Python, R, SQL

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

Databases: SQL Server, MySQL, SQLite, 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 Master of Science (MS-BA)
Business Analytics (GPA 3.97/4)

2015 - 2016

SRM University, Chennai, India Bachelor of Technology

2009 - 2013

# Certifications

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

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

### **Publications**

The Next Frontier: Individualized Rates Based on Cost of Service, American Water Works Association Journal, Nov 2022