JASMOL S DHESI

Data Scientist

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EDUCATION

Masters of Information Data Science

University of California Berkeley

📅 May 2024 - Dec 2025
🎓 GPA 4.0

Relevant courses

- Statistical Methods for Discrete Response, Time Series, and Panel Data
- Applied Machine Learning
- Natural Language Processing with Deep Learning
- Machine Learning at Scale
- Causal Inference

Bachelor of Science Biomedical Engineering

California Polytechnic State University San Luis Obispo

📅 Aug 2017 - Dec 2021

SKILLS

- **Languages**: Python, R, SQL (MySQL, Postgresql, NoSQL), VBA
- **Libraries**: Tensorflow, NumPy, Pandas, sci-kit learn, Seaborn, Matplotlib, Keras
- **Big Data**: Spark, Airflow, Hadoop
- **ML Algorithms**: Gradient Descent, KNN, Neural Networks, Decision Trees, k-means clustering & PCA
- **Technical Skills**: ETL, AWS, Google BigQuery, MongoDB, Docker, Kafka, Git, Linux, Bash Scripting, Tableau

CAREER OBJECTIVE

Data Science graduate student skilled in predictive modeling, statistical analysis, and machine learning. Proven success in automating workflows, providing real-time analytics, delivering data-driven solutions, and cutting data processing times by 90%. Seeking internships to leverage SQL, Python, and R for AI model development, data science, and data engineering solutions.

WORK EXPERIENCE

Industrial Engineer – Data Analytics

Paramit Inc.

📅 Sep 2022 - Sep 2024   📍 Morgan Hill, CA

- Developed and owned reporting for a manufacturing scheduler and KPI dashboard with Python and SQL, saving over $80K in labor.
- Enhanced ETL pipeline efficiency by fixing miscounts and SQL errors, achieving a 20% increase in reporting accuracy for key metrics.
- Automated data collection and analysis using SQL and Python to streamline labeling workflows, reducing inefficiencies and saving $60K in annually.
- Diagnosed and resolved critical software bugs, utilizing surveys to assess operator feedback. Continuous improvements increased operator satisfaction by 200% and hardware issues saw a 70% reduction.
- Analyzed cycle times and voice command delays to develop a remote-control command system for navigating manufacturing software. Decreased computer response time by 90% and cut material costs by 88%.

Manufacturing Engineer

Vyaire Medical

📅 Jan 2022 - Sep 2022   📍 Irvine, CA

- Led cross-functional teams to ensure compliance of ventilation products with international regulations, collaborating with stakeholders across engineering, regulatory, and product management.
- Developed testing plans to certify legacy products to international standards, ensuring market readiness and regulatory approval.
- Directed gap remediation efforts for risk management files, streamlining processes and achieving deadline compliance.

PROJECTS

Carbon Emissions Time Series Forecasting

📅 October 2024 - November 2024

- Modeled CO_2 levels using ARIMA and polynomial models and exponential smoothing to forecast climate impacts. Models decreased error metrics by over 88% in comparison to baseline models.
- Applied seasonal decomposition and trend analysis to capture fluctuations and relationships between emissions and climate variables.
- Validated model performance through residual diagnostics and accuracy metrics, ensuring reliability for policy-oriented climate projections.

Clustering to Predict Heart Failure Patient Survival

📅 October 2024 - December 2024

- Applied K-Means, Hierarchical, and density-based spatial clustering to segment patients by survival characteristics, leveraging SVD for dimensionality reduction and feature optimization.
- Engineered key features and applied hyperparameter tuning, optimizing model depth, and validated model performance with metrics such as silhouette scores, ensuring robust and actionable insights.