Jash Shah

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EDUCATION

Pace University, *Master's in Data Science | GPA-3.8* *August 2022 - May 2024*

Shah And Anchor Kutchii engineering College, *Bachelor's in Computer Science | GPA- 3.0* *August 2019 - June 2022*

TECHNICAL PROFICIENCIES

Programming Languages: Python(Pandas, NumPy ,PySpark, PyCharm, TensorFlow) | SQL

Data Visualization: Power BI | Python | Microsoft Excel | Looker Studio |

Database: MYSQL | Salesforce | **Cloud Platforms**: AWS (API Gateway | Lambda | DynamoDB | RDS | Quicksight)

Certifications: Python 3.4.3, PHP & MySQL, Coursera (Data Analytics and Databases on AWS, Microsoft Excel for Data Analysis, Microsoft Power BI Data Analyst)

EXPERIENCE

Harlem Children's Zone – *Data Aide* ***October 2024 - Present***

- Conduct detailed analysis of course outcomes to identify trends and gaps of children's, and automated workflows to integrate weekly updates into centralized databases, saving 10+ staff hours weekly with Looker Studio reports.
- Rectified over 1K data discrepancies monthly across salesforce databases and spreadsheets, remarkably improving data integrity.

Community Dreams Foundation- *Data Analyst* ***August 2024- Present***

- Led data analysis and visualization for a Nonprofit affordable housing project, tracking progress, costs, and timelines which were the KPIs.
- Built interactive Power BI dashboards linked to Snowflake, reducing reporting time and improving insights by enabling real-time KPI tracking.
- Developed SQL pipelines to clean and standardize contractor data, ensuring almost 75% data accuracy and automating data ingestion with Snowpipe.
- Implemented automated alerts in Power BI for budget deviations and overdue milestones, enhancing stakeholder decision-making.

Infogain Corporation- *Data Science Intern* ***June 2023 – August 2023***

- Conducted EDA on 100K+ sales records using Python (Pandas, Matplotlib) and Excel (VLOOKUP, pivot tables, macros), uncovering trends that improved forecasting accuracy by 20%.
- Built predictive models like Linear Regression and ARIMA in Python to forecast sales and support strategic planning.
- Delivered actionable insights to over 5+ stakeholders through detailed reports and Looker Studio dashboards, aligning business decisions with data.

Supermak Foils Pvt Ltd- *Data Analyst* ***January 2022 - April 2022***

- Analyzed and cleaned customer and market data using SQL and with Python conducted EDA, implemented K-Means clustering for customer segmentation, identifying high-value segments and improvement in personalized marketing strategies.
- Designed interactive Power BI dashboards to track marketing KPIs such as Revenue Growth and cost per Acquisition, reducing reporting time by 25%, and
- Created predictive models like Linear Regression to forecast sales trends, contributing to a 12% revenue increase through marketing and customer targeting.

Supermak Foils Pvt Ltd - *Data Analyst Intern* ***July 2020 - September 2021***

- Analyzed large-scale sales data using SQL, Python and Excel, identifying trends that drove a 15% revenue increase through optimized sales strategies.
- Developed predictive models (Gradient Boosting Machines, Linear Regression) to forecast sales, improving forecasting accuracy by 20%.
- Designed real time Power BI dashboards connected to Snowflake, reducing reporting time by 30% and enabling real-time KPI tracking.

ACADEMICS PROJECT

Quantum GAN for Discrete Distribution on CIFAR-10

- Designed and implemented a Quantum-Classical GAN with a 25-50 qubit quantum generator circuit, achieving an Inception Score of 8.5, surpassing classical GANs in image generation quality**.**
- Developed a hybrid Quantum GAN architecture, integrating quantum circuits for the generator and CNN for the discriminator to enhance image distribution modeling.
- Optimized quantum generator performance using Quantum Convolutional Networks in Cirq, improving feature extraction efficiency by 30%.
- Conducted comparative analysis with classical GANs, demonstrating a 20% improvement in image diversity and complexity.
- Leveraged quantum advantages to reduce training time by 25% while maintaining high model performance, contributing to advancements in Quantum Machine Learning (QML).