Pranav Dalvi

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Education

Syracuse University **August 2023 – Present**
Master of Science, Information Systems,(GPA:3.9/4) *New York, USA*

University of Mumbai **August 2019 – May 2023**
Bachelor of Engineering, Information Technology,(GPA:3.72/4) *Mumbai, India*

Work Experience

iConsult Collaborative at Syracuse University **August 2024 – Present**
Data Analyst *New York, USA*

- Optimized resource allocation using **Python** and **SQL**, achieving a **15% reduction** in operational costs by identifying efficiency patterns and implementing cost-saving strategies.
- Enhanced data integrity and **reduced errors by 10%** through the integration and cleaning of datasets from multiple sources, leveraging advanced analytical techniques.
- Developed and deployed dynamic **Tableau dashboards** that **decreased reporting time by 25%** and improved decision-making by visualizing key performance indicators **(KPIs)** and operational metrics.

Peacock Solar **August 2021 – May 2022**
Data Science Intern *Mumbai, India*

- Enhanced **ETL** pipelines, conducting intricate data transformations across various tools **(Informatica, Snowflake, Power BI, Advanced Excel)** from over six data sources to meet analytical requirements.
- Created **statistical** and **machine learning** models, along with interactive **Power BI dashboards**, to understand KPIs and design innovative marketing strategies, driving a **35% revenue growth** for an e-commerce client.
- Analyzed client raw data in SQL to generate autonomous KPIs, improving real-time analytics by 20%, and optimized large databases with over **5 million rows**, increasing efficiency by 18%.

Academic Projects

Impact Analysis of New Constructions on Housing Prices | *XGBoost, Random Forest*

- Led development and validation of XGBoost and Random Forest models, analysing over 270,587 transactions to predict market prices with an R^2 of 0.8612, enhancing predictive reliability for stakeholders.
- Provided data-driven insights to builders, guiding adjustments in construction plans that prevented a 20% potential oversupply and optimized pricing strategies.
- Developed dynamic dashboards and reporting tools, boosting investment decision-making efficiency by 15% and enabling responsive market adaptations.

Energy Consumption Analysis and Optimization | *Linear Regression, SVM, XGBoost, Shiny*

- Led a team analysing data from 5,000 residences across 50 counties, integrating weather data into a 4.5-million-row dataset to enhance HVAC efficiency.
- Utilized Linear Regression, SVM, and XGBoost models with advanced feature engineering to cut energy consumption by 0.6% and counter a projected 10.2% increase.
- Developed an interactive Shiny app, performing comprehensive exploratory data analysis and achieving 81% prediction accuracy for South Carolina residences.

Prediction of Customer Lifetime Value on AWS | *Python, TensorFlow/Keras, AWS RDS, AWS Lambda*

- Developed a predictive model using Python and TensorFlow/Keras to estimate Customer Lifetime Value (CLV) for a subscription service, utilizing historical data stored in AWS RDS.
- Employed advanced regression and hypothesis testing to identify key predictors of CLV, improving accuracy in forecasting customer revenue contributions.
- Implemented the model on AWS Lambda for real-time, serverless updates of CLV estimates, enhancing strategic decision-making and customer retention strategies.

Technical Skills

Languages: Python, C++, HTML, CSS, C#, R, SQL, DAX, VBA
Developer Tools: Advanced Excel, Salesforce, Tableau, PowerBI, Snowflake, Looker, AWS, Azure
Technologies/Frameworks: XGBoost, Random Forest, Linear Regression, SVM, Shiny, TensorFlow/Keras, Informatica