

Archit Dudeja

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EDUCATION

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| University of Utah <i>Master of Science - Information Systems</i> Data Analytics Specialization GPA: 3.98/4.0 Coursework: Data Mining, Data Engineering, Statistics & Predictive Analytics, Data Science & Big Data, Machine Learning | United States Aug 2023 - Dec 2024 |
| Manipal University Jaipur <i>Bachelors of Technology - Computer & Communication Engineering</i> GPA: 8.07/10.0 Coursework: Machine Learning, Data Mining & Warehousing, Database Management Systems, Python, Data Structures | India Aug 2017 - Jun 2021 |

SKILLS

Data Analysis & Visualization: Tableau, Power BI, Google Looker, Excel, DOMO, DAX, Matplotlib, Seaborn
Programming & Scripting: Python (Pandas, NumPy, Scikit-learn, SQLAlchemy), R, SQL (MySQL, PostgreSQL, Oracle SQL)
Database Management & ETL: SSIS, SSMS, MongoDB, Apache Spark
Data Science Techniques: Time Series Analysis (SARIMA), Predictive Analytics, Statistical Modeling, MLP, SVM

EXPERIENCE

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| Data Analyst <i>University of Utah Health</i> | May 2024 - Aug 2024 Salt Lake City, Utah |
| <ul style="list-style-type: none">Architected a Tableau dashboard integrating annual revenue reports with dynamic parameterization, achieving 98% user adoption rate and reducing report generation by 40% through automated data refresh cyclesElevated dashboard performance by 30% and decreased data processing time through optimizing complex SQL queries in the enterprise data warehouse, leveraging advanced window functions, CTEs, and partitioningLed the migration of 23 legacy SAP Business Objects reports to a unified Tableau dashboard, implementing LOD expressions to serve 250 daily users, thereby increasing cross-team collaboration and accountability | |
| Associate Data Analyst <i>Accenture</i> | May 2021 - Jul 2023 New Delhi, India |
| <ul style="list-style-type: none">Spearheaded cross-team collaboration within an Agile environment, developing interactive Excel dashboards leveraging Pivot Tables, VLookups to deliver 95% client satisfactionEngineered a cost-saving Power BI inventory dashboard, integrating DAX calculations and row-level security, cutting capital expenditures by \$0.5M by identifying inefficiencies across 100 processesTransformed the ETL pipeline, designing scalable SSIS packages and optimizing MSSQL queries to enhance reliability by 40% and reduce high-volume data processing timesPioneered a resource-tracking solution using Microsoft Power Apps and Power Automate, automating 90% of manual monitoring tasks on SSMS to improving human resource allocation and utilization | |
| Data Engineer <i>Panchtatva Advertising</i> | Feb 2021 - May 2021 New Delhi, India |
| <ul style="list-style-type: none">Enhanced lifetime value (LTV) forecast accuracy by 40% through in-depth marketing analytics using Python libraries, including Pandas, Matplotlib, and Seaborn, to extract insights from ad performance data and optimize campaign strategyIncreased ROAS by 25% by migrating ad performance reporting to Power BI, enabling real-time insights, audience segmentation, and cost-revenue analysis through calculated measures, DAX formulas, and hierarchical drill-downs | |
| PROJECTS | |
| Credit Risk Model | Oct 2024 - Nov 2024 |
| <ul style="list-style-type: none">Trained a credit risk prediction model using the Random Forest algorithm, achieving 89% accuracy employing feature engineering and data preprocessing techniques to ensure model precisionStrengthened model performance by 15% over a baseline Random Forest through cross-validation, hyperparameter tuning and the incorporation of the XGBoost gradient boosting algorithm to validate the model's robustness | |
| Primary Children's Hospital Tableau Dashboard | Feb 2024 - Jul 2024 |
| <ul style="list-style-type: none">Developed a Tableau dashboard for personalized health metrics, leveraging data from the Redcap Database to analyze patient outcomes; improved healthcare teams' data visibility by 50%, enhancing their decision-making capabilitiesPioneered an ETL pipeline using computer vision techniques to extract patient data from paper-based records and migrate to the Redcap Database, enhancing the usability of the digital form by 50 | |
| AI Generated Assignment Detection System | Aug 2024 - Oct 2024 |
| <ul style="list-style-type: none">Automated data extraction from Canvas via API using Python's BeautifulSoup and applied NLP preprocessing with NLTK. Trained a Logistic Regression model and later implemented a BERT model using Hugging Face, achieving 72% accuracy | |