

EDUCATION

<b>The University of Arizona, Tucson, Arizona</b>	Aug 2022 – Dec 2023 (Expected)
Master of Science in Data Science	<i>GPA: 4 out of 4 scale</i>
<b>University of Engineering and Management, Jaipur, India</b>	Aug 2013 – May 2017
Bachelor of Technology in Electrical Engineering	<i>GPA: 7.66 out of 10 scale</i>

SKILLS

- **Languages:** R (dplyr, tidyverse, tidymodels, caret, glmnet, Hmisc), Python (Pandas, NumPy, PyTorch, Tensor Flow, Scikit Learn, Matplotlib, tqdm, seaborn), SQL/NoSQL
- **Tools & Platforms:** Visualization Tools(Tableau, Looker), Jupyter Notebook, MySQL, PostgreSQL, Teradata, Version Control System(Git), Informatica, Agile tool( Jira), AWS Services(Athena), Google Cloud Storage(GCP), Amazon MTurk.
- **Data Science and Analytic Skills:** Data Wrangling, Data Engineering, Exploratory Data Analysis (EDA), Machine Learning Algorithms (Classification, Regression, Clustering), Data Visualization, Excel & Spreadsheet Analysis, Predictive Modeling, Feature Engineering, RFM (Recency, Frequency, Monetary) Analysis and Customer Segmentation, Strategic Planning & Decision Making, Problem Solving.
- **Soft Skills:** Time Management, Task Management, Data Management, Leadership

PROFESSIONAL EXPERIENCE

<b>The University of Arizona (Department of Pediatrics), Tucson, AZ</b>	Feb 2023 – Present
<b>Graduate Research Assistant</b>	

- Optimize database programs for seamless data querying and ensure secure data procedures and transfers for system integrity.
- Execute data cleaning and data linkage pipeline protocols, while meticulously maintaining detailed work logs for replicable data refinement.
- Create Data Pipelines from MariaDB to PostgreSQL OMOP table using Python and utilize Amazon Athena, increasing data transfer speed by 30% compared to previous methods.
- Create MTurk tasks, integrate REDCap surveys, and analyze data using R upon survey completion, reducing post-survey processing time by 20%.
- Analyze patient data via statistical tests and logistic regression to uncover care patterns, demographics, and factors impacting engagement and adherence.

<b>Tata Consultancy Services, Mumbai, India</b>	Mar 2018 – Jul 2022
<b>Systems Engineer</b>	

- **Extract, Transfer and Load (ETL) experience:**
  - Utilized Informatica Power Exchange and PowerCenter 9.x for data extraction, transformation, and loading from various sources, including mainframes, flat files, Teradata, and Enterprise Data Warehouse (EDW).
  - Crafted ETL mappings, worklets, mapplets, and reusable transformations with diverse functionalities and migrate database objects across different environments with a 25% reduction in deployment time and improved efficiency.
  - Established and sustained data pipelines, resulting in a 30% increase in efficiency for business intelligence, reporting, and analytics purposes.
- **Optimization and Cloud Computing:**
  - Identified bottlenecks and optimized performance tuning at the source, target, mapping, and session levels for long-running CI/CD jobs.
  - Employed cloud computing (AWS) for ETL optimization, resulting in a 50% reduction in processing time and increased scalability.
  - Utilized ETL tools to streamline data integration workflows, minimizing errors by 28%, enhancing data quality, while decreasing 2.5% of the infrastructure costs.
  - Engineered a retrofit solution leveraging contextual knowledge, resulting in the integration of 2.5 million customers for the client, and concurrently boosting performance and code execution speed by 30%.
- **Documentation and Project Tracking:**
  - Collaborated with onshore and offshore data stewards and application development leads to maintain project tracker using JIRA, resulting in a 20% increase in project visibility and coordination efficiency.
  - Oversaw ETL code repositories through continuous integration practices, conducting code reviews to uphold code quality and standards, leading to a 15% decrease in defects and improved development cycle.
  - Communicated findings and insights to stakeholders in a lucid and influential fashion, fostering well informed decisions and driving project success.
- **Leadership and Cross-Functional Expertise:**
  - Led a 12-member ETL development team, driving the design and implementation of data transformation processes for precise data integration into the warehouse, while prioritizing data quality and performance enhancements.
  - Guided junior developers on data modeling best practices and fundamental data integration, demonstrating a holistic skill development approach.

CERTIFICATION

• Google Business Intelligence by Coursera	In Progress
• <a href="#">Google Project Management by Coursera</a>	July 2023
• <a href="#">Google Data Analytics by Coursera</a>	June 2023

PROJECTS

• <a href="#">Identifying Leaf Phenology of Deciduous Broadleaf Forests from PhenoCam Images</a>	In Progress
• Project goal: Develop a tool for predicting leaf phenology in deciduous broadleaf forests across various sites using CNN Regression.	
• Three methods to be employed: AlexNet, ResNet-50, ResNet-101.	
• <a href="#">Uber Data Analytics</a>	Aug 2023
• Project goal: Execute an Uber data project to showcase data expertise, delivering actionable insights and enhanced data accessibility.	
• Extracted and transformed data at a rate of 500 records per second using Google Cloud Storage and Mage ETL	
• Boosted data accessibility by 30% with an interactive Looker dashboard translating raw data into actionable visuals.	
• <a href="#">Credit Card Fraud Detection</a>	Aug 2023
• Project goal: Build robust fraud detection models for credit card transactions.	
• Utilized SMOTE Technique to address data imbalance.	
• Employed ML algorithms: Decision Tree, Logistic Regression, Random Forest, and Naive Bayes.	
• The best model obtained an accuracy of 92% and a precision of 97%	
• <a href="#">Salary Prediction</a>	July 2023
• Project goal: Develop an optimized model using Gradient Descent to forecast salary considering years of experience.	
• Attained a Mean Square Error (MSE) of 6.3% for the model.	
• <a href="#">Design and Implementation of an Image Classifier using CNN</a>	Dec 2022
• Project goal: Evaluate a deep convolutional network(CNN) for extensive image classification.	
• Accomplished an accuracy of 91.21%.	
• Utilized Python libraries: NumPy, Pandas, and PyTorch.	

SCHOLARSHIP & AWARDS

• <b>University of Arizona, Department of Pediatrics</b>	Feb 2023, Aug 2023
0.5 FTE (Full Time Equivalent) with Complete Tuition Remission	
• <b>Contextual Master Award, Tata Consultancy Services</b>	Mar 2022
Promotion as Senior ETL Developer along with salary increment of 14% and bonus of 20,000 INR.	
• <b>NEN Champions Runners-Up Award</b>	Mar 2016
For contributions to entrepreneurship education and innovation at the National Entrepreneurship Network by Wadhvani Foundation	