EDUCATION

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

SKILLS

- Languages: R (dplyr, tidyverse, tidytext, caret, glmnet, Hmisc), Python (Pandas, NumPy, PyTorch, Tensor Flow, Scikit Learn, Matplotlib, tqdm, seaborn), SQL/NoSQL(Joins, correlated subqueries, CTE's)
- Tools & Platforms: Visualization Tools (Tableau, Looker), Jupyter Notebook, MySQL, Postgres, Teradata, Version Control System (Git), Informatica Power Center, Agile tool(Jira), AWS Services(Athena), Kafka, Google Cloud Storage(GCP), Amazon MTurk, Data Security Platform (Protegrity)
- 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

The University of Arizona (Department of Pediatrics), Tucson, AZ Graduate Research Assistant

reb 2023 - Presen

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Data Optimization Pioneer: Led database optimization efforts, ensuring secure and seamless data queries.

Efficient Data Pipeline Management: Orchestrated data cleaning and linkage pipelines, maintaining detailed logs for transparent data refinement. **Enhanced Data Transfer Speed**: Designed data pipelines for MariaDB to PostgreSQL OMOP tables with Python, boosting transfer speed by 30% via Amazon Athena.

Efficient Post-Survey Processing: Streamlined post-survey tasks, reducing processing time by 20% by integrating MTurk tasks and REDCap surveys. **Data-Driven Healthcare Insights**: Applied statistical tests and logistic regression to uncover care patterns, demographics, and engagement factors in patient data analysis.

Tata Consultancy Services, Mumbai, India Systems Engineer

Mar 2018 - Jul 2022

- Extract, Transfer and Load (ETL) Expertise:
 - Leveraged Informatica Power Exchange and PowerCenter 9.x for ETL tasks from various sources (mainframes, flat files, Teradata, and Enterprise Data Warehouse (EDW), etc.), achieving a 25% enhancement in productivity.
 - Created ETL mappings, worklets, mapplets, and reusable transformations, reducing deployment time by 25% while ensuring versatile
 functionality and seamless database migration across environments.
 - Established and maintained data pipelines, resulting in a 30% increase in efficiency for business intelligence, reporting, and analytics.
- 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.
 - Employed ETL tools to streamline data integration workflows, reducing errors by 28% and lowering infrastructure costs by 2.5%.
 - Engineered retrofit solution, integrating 2.5 million customers, while increasing code execution speed by 30%.
 - Built data balancing jobs for applications using streaming technologies like Kafka, to ensure completeness and failure alert controls.
- Documentation and Project Tracking:
 - Collaborated with onshore and offshore teams, conducted unit testing, and maintained a project tracker in JIRA, thereby increasing project visibility and coordination efficiency by 20%.
 - Oversaw ETL code repositories with continuous integration practices, resulting in a 15% reduction in defects and improved development cycles.
 - Presented findings and insights in a clear and influential manner, driving informed decisions and project success.
- Leadership and Cross-Functional Expertise:
 - Led a 12-member ETL development team, focusing on data transformation precision, quality, and performance enhancements.
 - Guided junior developers in data modeling best practices and fundamental data integration, fostering holistic skill development.

CERTIFICATION

•	Google Business Intelligence by Coursera	In Progress
•	Google Project Management by Coursera	July 2023
•	Google Data Analytics by Coursera	June 2023

PROJECTS

•	Identifying Leaf Phenology of Deciduous Broadleaf Forests from PhenoCam Images	In Progress
	• To develop a tool for predicting leaf phenology in deciduous broadleaf forests across various sites using CNN Regression.	
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• Three methods to be employed: AlexNet, ResNet-50, ResNet-101.

<u>Uber Data Analytics</u> Aug 2023

• Developed a robust and efficient data pipeline and analytics system for Uber data.

• 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.

Aug 2023

 $\bullet \ \ Developed \ a \ fraud \ detection \ model \ to \ identify \ and \ mitigate \ fraudulent \ activities \ effectively.$

• 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%.

• Salary Prediction July 2023

• Optimized a salary forecasting model by utilizing Gradient Descent to predict income based on years of professional experience.

• Attained a Mean Square Error (MSE) of 6.3% for the model.

<u>Design and Implementation of an Image Classifier using CNN</u>

Dec 2022

• Evaluated a deep convolutional network (CNN) for extensive image classification and accomplished an accuracy of 91.21%.

• Utilized Python libraries: NumPy, Pandas, and PyTorch.

SCHOLARSHIP & AWARDS

University of Arizona, Department of Pediatrics Feb 2023, Aug 2023
0.5 FTE (Full Time Equivalent) with Complete Tuition Remission

Contextual Master Award, Tata Consultancy Services

Proportion of Service FTL Proplement and a service services and a service of 140% and because of 20,000 INI

Mar 2022

Promotion as Senior ETL Developer along with salary increment of 14% and bonus of $20,\!000$ INR.

NEN Champions Runners-Up Award
For contributions to entrepreneurship education and innovation at the National Entrepreneurship Network by Wadhwani Foundation