**Shivani Dandir**

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# **EDUCATION**

**Master of Science in Management Information Systems (MIS)** Dec 2022

Eller College of Management, University of Arizona, Tucson, AZ, USA GPA 3.7

Coursework - Database Management, Data Mining, Business Intelligence, Data Warehouse, Big Data, Statistics

**Bachelor of Engineering in Information Technology (IT)**  May 2019

Maharashtra Institute of Technology College of Engineering, Pune, MH, India GPA 3.7

# **WORK EXPERIENCE**

**Data Engineer | University of Arizona, Tucson, USA** Aug 2021– Present

* Created 20 reporting dashboards in Tableau for administrative data to provide insights to university business teams including the senior leadership, and enhanced the existing dashboards using a creative approach
* Analyzed KPI in Oracle Business Intelligence (OBIEE) for financial, research, employee, and learning domains
* Developed a self-serving ETL pipeline - transforms data, cleans it, and feeds it to the dashboard after data analysis

# **Business Intelligence Engineer Intern | Amazon, Seattle, USA** May 2022 – Aug 2022

* Created 5 enhanced metrics to evaluate consumer engagement for the Alexa app using SQL queries & Tableau
* Translated business needs into data, created weekly/monthly business reviews for Alexa App using ETL in Redshift
* Optimized existing SQL codes using data aggregation which resulted in saving resources by 30% per execution
* Worked with product & engineering team to build efficient, reliable, & scalable data pipelines on a large dataset (500TB+)
* Analyzed critical data problems to optimize reports and installed data quality validations to report data accurately
* Dealt with a degree of ambiguity and developed a quick proof of concepts; created 15 Tableau dashboards

# **Graduate Consultant | Samsung, Tucson, USA** Jan 2022 – May 2022

* Researched key areas to find business solutions, used hypothesis-driven approach after problem breakdown
* Collaborated with stakeholders & executives to frame a story around business cases to present it to C-suite
* Designed a product recommendation to increase 20% revenue by customer & industry research on focused group

**Business Technology Analyst | Deloitte, Mumbai, India**  Dec 2019 – Jul 2021

* Spearheaded 2 modules, data collection & correspondence, independently in the highest revenue-generating public sector agile project, collaborated with 150+ practitioners, generated $200k+ in revenue, and managed 3 interns
* Analyzed key issues provided data fixes in SQL, impacted 1M+ cases in production; worked in a cross-functional team
* Reduced team efforts up to 20 hours/week by developing JIRA dashboards to enable time and usage tracking
* Devised Batch Report Automation Macro using Excel & MySQL for performance optimization, saving 120+ hours/week
* Enhanced the time of fetching the data by using advanced SQL queries, data integration, and transformation

# **SKILLS**

* **Languages and Databases**: Python, SQL, Java, R, Spark, Scala, Hive, NoSQL, Oracle, Hadoop, MySQL, MATLAB
* **Tools and Services**: Tableau, Git, PowerBI, RedShift, AWS EC2, AWS S3, AWS DynamoDB, Glue, Lambda, Airflow
* **Frameworks and Libraries**: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, NLTK, NLP, matplotlib
* **Additional Skills**: Performance tuning, ETL, Data modeling, Data pipeline, Data standards and policies, Reporting and analysis, Data Integration, Data Analysis, Validation, Optimization, Technical documents, Design documentation
* **Professional Skills**: Excellent communication, Problem-solving, Analytical, Critical thinking, Creative approach

# **ACADEMIC EXPERIENCE**

**Data Scientist** | Audio Analysis of Lena under Prof. Leroy **Python | Machine Learning**  May 2022

* Evaluated machine learning models (DeepSpeech, coqui) to transcribe audio of children with Down Syndrome
* Scripted extraction and splitting code in Python and Linux to feed it to the deep learning models for transformation
* Processed 100GB+ real-time audio data in python to remove noise, reported the results for further research

**Data Engineer** | Business Intelligence & Data Warehouse **Oracle | SQL | Tableau | ETL**  Mar 2022

* Created an ETL data pipeline in Microsoft SQL server management for data management of extracted data from cdc.org
* Transformed the data by normalization and aggregation, loaded the data in a star schema in Visual Studio
* Analyzed the data through exploratory analysis in Tableau; presented insights for improvement in healthcare
* Led a team of 4 - scheduling scrum meetings, sprint planning, setting deadlines, implemented agile methodology
* Conducted requirements gathering and project scoping sessions with subject matter experts

**Data Architect** | Enterprise Database Management **Oracle** | **JAVA** | **AWS | MS Visio** Nov 2021

* Created a Data Model and architecture for a food delivery app, after gathering requirements, and mapping relations
* Devised data manipulation language (DML) in SQL for retrieving data on the front-end using Java, in AWS S3
* Designed relational database, ER diagram, normalized the database, performed ETL, created procedures in PLSQL

# **Data Engineer** | Traffic Dataset Analysis **SQL | Python** | **Excel | Tableau | ETL** Aug 2021

* Analyzed Estonia traffic dataset containing a large volume of data (5M rows) as part of data analytics challenge
* Cleaned and processed the data to analyze accidents caused by intoxication by exploratory analysis in MySQL
* Visualized data in Tableau to generate insights and provided a solution to change the patrolling schedule

**Data Scientist** | Identifying racist/sexist Tweets **Python | NLP | ETL | Deep Learning**  July 2019

* Cleaned data by parsing & tokenizing 50,000+ tweets, visualized in WordCloud, used natural language processing
* Built bag of words & TF-IDF models with Naïve Bayes algorithm to determine the nature of tweets