RIYA CHADDHA

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SUMMARY

A data-savvy college graduate with 2+ years of experience in Data Engineering and a solid grasp of database and business architecture, driven by a fervor for data engineering and statistical analysis, and now poised to harness analytical skills for the purpose of enhancing corporate performance in the role of a Business Intelligence Engineer.

EDUCATION

Master of Science in Information Systems, Northeastern University — Aug 2023 - Present

Bachelor of Engineering in Computer Science, University of Pune — Aug 2016 - May 2020

TECHNICAL SKILLS

Programming Languages:	Python, Java, R, C, C++, HTML, CSS, JavaScript, AngularJS, Node JS, Typescript, React
Database & Data Warehouses:	MS SQL, MySQL, Oracle, PL/SQL, MongoDB(NoSQL), Azure Data Studio, Azure Data Factory
Tools & Technologies:	Power BI/DAX, Tableau, Git, RStudio, Talend, Alteryx, Snowflake, Apache Spark, Informatica
Frameworks:	TensorFlow, NumPy, Pandas, OpenCV, Sci-kit learn, Matplotlib, PyTorch, Jupyter
Relevant Skills:	ETL/ELT process, Data Warehousing, Data Manipulation, Statistical Analysis, NLP, LLM

WORK EXPERIENCE

Data Engineer, Larsen & Toubro Infotech (LTI) — Aug 2021 - Jun 2023

- Created Power BI dashboards by querying, loading, and transforming data from the Warehouse and Data Mart into SSMS
- Contributed to a 30% increase in decision-making efficiency by delivering interactive and insightful Power BI reports
- Key contributor to Project Release-1 launch, ensuring 94% defect-free results in UAT by collaborating within Azure DevOps
- Earned recognition from executives for pivotal contribution to quality assurance efforts by **identifying 60%** critical defects

Data Engineer Trainee, Larsen & Toubro Infotech (LTI) — Jan 2021 - Jul 2021

- Conducted comprehensive Reports Testing, ensuring flawless data flow from Data Warehouse and Data Mart into SSMS
- Revitalized testing efficiency by 90% through the automation of regression and iteration testing using the IPAT framework
- Executed functional testing for insurance applications, including policy, claims and billing within Duck Creek environment

Android Developer Intern, Optinno Mobitech — Dec 2018 - Feb 2019

- Designed and designed an Android calling and messaging app with diverse functionalities using Android Studio
- Employed SQLite for managing and retrieving contact details to and from the database efficiently
- Implemented message segregation through text analysis, categorizing incoming messages into spam and important

ACADEMIC PROJECTS

Food Inspection BI: Dallas & Chicago Data Analysis — Jan 2024 - Feb 2024

- Designed and implemented dimensional modeling for analyzing food inspection data from Dallas and Chicago cities
- Conducted data profiling to check quality of data including missing values using Alteryx and y-data profiling tools
- Conducted data staging and cleaning in Talend, including addressing missing values and consolidating columns
- Generated Power BI and Talend dashboards to visualize the analysis done on the clean data and verified it using SSMS

Housing Price Prediction using Neural Networks — Jan 2024 – Feb 2024

- Implemented a neural network model for predicting housing prices using strategic feature selection to enhance accuracy
- Utilizing NumPy, Pandas, Seaborn, sklearn for data manipulation and preprocessing to address dataset inconsistencies
- Applied AutoML and SHAP analysis techniques to evaluate the optimal model, providing explanations for model outputs

Inventory Management System — Nov 2023 – Dec 2023

- Engineered an efficient inventory system for frozen food product management across suppliers and end-users
- Developed insightful **Power BI** reports to visualize critical information related to the top order lists and inventory stock
- Leveraged **SQL Server Management Studio (SSMS)** for the design and administration of the database infrastructure

Classification and Detection of Galaxies using Faster RCNN — Nov 2019 - Apr 2020

- Led training of a machine learning model that successfully classifies galaxies based on the Hubble Sequence
- Operationalized Faster **Region-based Convolutional Neural Network** (R-CNN) algorithm for an **86% accuracy boost**
- Utilized **TensorFlow**, **Keras** to train neural networks for galaxy classification, and **NumPy**, **Pandas** for data manipulation
- Employed **OpenCV** for image processing tasks, such as object detection, **feature extraction** and image segmentation