VIDHI PARIKH

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PROFESSIONAL SUMMARY

Motivated individual with a strong passion drifting towards data-centric roles by focusing on data engineering, data analytics. Passionate about the upcoming trends in AI like LLMs. Fostered by work experience as a software developer for Java and web technologies. Enthusiastic about technical writing and practicing as a freelance writer.

EDUCATION

Master of Science, Management Information Systems – University at Buffalo, SUNY | GPA: 4.0/4.0   06/2023
Bachelor in Technology, Computer Engineering– Mumbai University | First Class with Distinction   10/2020

WORK EXPERIENCE

Conversational AI Developer, *Freelance*   01/2024- Ongoing

Working on developing an interactive chat-bot that lends an empathetic ear to the users and provide first-hand solutions by interacting with Llama 2 LLM through a web interface developed using Gradio by implementing text generation API.

Graduate Research Assistant, *University at Buffalo-SUNY*   01/2023–12/2023

Regulated extensive literature reviews of AI algorithms, selecting and combining the most accurate ones for agile story point effort estimation, resulting in an 80% accuracy rate. Currently developing a research paper that explores the practical application and combination of AI algorithms for various use cases. Authored an educational tutorial paper emphasizing a 90% increase in the usage of mobile forensics tools like Aleapp and Ileapp. Role involved proficient data analysis, rigorous research methodologies, effective collaboration with professors, and problem-solving in AI and mobile forensics.

Data Analyst Intern, *Primary Care IPA*   08/2022–12/2022

Performed extensive data pre-processing on pediatric population datasets from diverse EHRs and EMRs, ensuring strict HIPAA compliance. Utilized advanced statistical and machine learning techniques in Python, R, and SQL to perform in-depth data analysis, uncovering valuable insights. Customized interactive Tableau dashboards to facilitate data-driven decision-making, contributing to a 50% improvement in client quality of life within the IPA. Crafted machine learning model in Python to calculate risk score for patients and tested model accuracy using Orange.

Associate Analyst Consultant, *Oracle*   06/2020–07/2022

Led client data migration project for AFG Bank in Africa, involving data analysis, pre-processing, modeling, and validation to transition from their existing system to Oracle's Banking Digital Experience (OBDX) using KnockoutJS. Created RESTful APIs in Java for Open Banking, resulting in an impressive 85% increase in customer access to online banking facilities.

Collaborated closely with cross-functional teams and end clients to design and develop various web applications in the Fintech domain, utilizing the OBDX product. Conducted comprehensive software testing, including system integration testing, user acceptance testing, and production testing for custom web apps serving diverse clients.

Designed a natural language processing-based machine learning model to efficiently manage client feedback. This innovation contributed to a 5% increase in Customer Lifetime Value (CLV) compared to acquisition costs.

SKILLS

Languages: Python, SQL, R, Bootstrap, Java, C, HTML, CSS, JavaScript, PHP, jQuery, xml, json
Databases: MySQL, SQLite, Oracle Cloud, PostgreSQL, MS Access, NoSQL, MongoDB, BigQuery
Tools: Microsoft Office (Excel, PowerPoint, Word), Azure (DataFactory, Databricks, Synapse Analytics, Stream Analytics), Orange, Tableau - Prep Builder, Power BI, Qlik Sense, Marvel, Trello, Talend, Git, SAS Enterprise Miner, OpenRefine, Google Analytics(GA4), Snowflake, SSIS, AWS (Glue, EMR, Redshift, Athena), Spark, Hadoop, Hive, Kafka, Google Cloud Platform(GCP), Jira, ChatGPT, Llama 2
Machine Learning Models: Regression Models (Linear, Multilinear, Logistic), Decision Tree, Hypothesis Testing, Bayesian Classifiers, NLP, Large Language Models, Recurrent Neural Networks, KNN, SVM, PCA, LLMs

ACADEMIC PROJECT EXPERIENCE

Financial Loan Applying Service, *Data preparation, Machine Learning, Predictive Data Analytics*   01/2023-05/2023

Analyzed a loan service company's dataset, employing SAS Enterprise Miner, Open Refine, and Orange for data preparation and cleansing. Conceptualized a predictive analytics model using advanced statistical and machine learning techniques to estimate the likelihood of loan repayment based on diverse attributes, including income, gender, credit history, and property area. Performed data validation and feature engineering to optimize model performance and accuracy. Utilized SAS Enterprise Miner for model development and validation, contributing to data-driven loan risk assessment and improved lending decisions.

Retail Business, *Dimensional Modeling, ETL Pipelining*   08/2022–12/2022

Implemented business proposal requirements to establish a data warehouse infrastructure, including formulating a dimensional model. Executed SQL queries in Oracle Cloud to efficiently store and manage client information. Established a robust ETL (Extract, Transform, Load) pipeline for the data warehouse using the Talend ETL tool, ensuring seamless data integration and transformation.

COURSE CERTIFICATION AND DIGITAL BADGES

Google Analytics Certification, 04/2023   Engineer Data in Google Cloud, 10/2022
Microsoft Certified: Azure Data Engineer Associate, 03/2023   Insights from Data with BigQuery, 10/2022
Microsoft Certified: Azure Data Fundamentals, 02/2023   Connect and Transform Data Tableau, 11/2022
Build/Optimize Data Warehouses with Google BigQuery, 10/2022   Data Engineering AWS Machine Learning, 06/2023