Divya Dilip Ghorui

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SUMMARY

Results-driven Data Scientist with 4+ years of experience in data analytics, machine learning, and predictive modeling. Skilled in Python, SQL, Tableau, and cloud computing, with expertise in building scalable data pipelines, automation frameworks, and AI-driven solutions. Proven ability to extract meaningful insights from large datasets, optimize business processes, and drive data-informed decision-making. Experienced in collaborating with cross-functional teams to develop end-to-end data-driven strategies, enhancing operational efficiency and improving business performance.

EXPERIENCE

KeelWorks Foundation, USA - **Data Analyst**   **Jul 2024 - Present**
- Designed a data-centric Master Data Management (MDM) system responsible for migration logic of policyholders' data from a primary database of an insurance company to the company's data lake using SQL and Python, verifying millions of records
- Contributed to a proof of concept for creating a Large Language Model (LLM) for the insurance industry using Azure OpenAI
- Optimized SQL queries and Python scripts, reducing data migration time by 30%, and improving overall system efficiency, supporting the successful migration of over 20 million records within a 2-month project timeline

Business Intelligence Group (BIG), UIUC, USA - **Senior Consultant**   **Aug 2023 - Dec 2023**
- Spearheaded the development of a custom e-commerce loyalty product for a Fortune 500 client in supply chain management, boosting user retention by 25%
- Administered market research on competitor loyalty programs, offering unique value, increasing participation by 17%
- Advised on strategic partnerships and integrations to expand the appeal of the loyalty program within the target market

Phoenix Technologies, India Data Analyst   **May 2019 – Jul 2022**
- Collected, structured, and analyzed financial data from private equity and venture capital reports, including capital accounts, cash flow notices, and fund performance metrics, ensuring accuracy and consistency.
- Utilized SQL and Python to clean, transform, and manage large datasets, automating data extraction and reporting processes to improve efficiency and reduce errors.
- Built interactive dashboards in Tableau and Excel to provide real-time insights into investment performance, portfolio valuation, and market trends, supporting data-driven decision-making for stakeholders.

TECHNICAL SKILLS

- **Languages**: Python, R, MATLAB, PHP, Shell, HTML, CSS, React
- **Python and R Libraries**: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Plotly, Keras, Pytorch, Tensorflow, PySpark, dplyr, ggplot2
- **ETL and Business Intelligence Tools:** Power BI, Tableau, Alteryx, Talend, ER Studio (ETL), Navicat
- **Cloud Platforms:** AWS (S3, Lambda, Athena), Microsoft Azure, Google Cloud Platform (GCP)
- **Other Technologies**: SQL, Neo4j, MongoDB, SAP, KNIME, Git, VS Code, MS Excel, MS Office Suite
- **Soft Skills:** Communication, Presentation, Collaboration, Leadership, Problem-Solving, Detail-Oriented

EDUCATION

University of Illinois at Urbana-Champaign, Illinois, USA   **Aug 2022 - May 2024**
Masters of Science in Information Management (STEM)   *Current GPA: 3.71/4.0*
Coursework: Data Visualization, Data Warehousing and Business Intelligence, Statistical Models, Database Design, Artificial Intelligence
Teaching Assistant: Delivered math and career coaching to socioeconomically disadvantaged students at the TRIO Upward Bound program

St. Francis Institute of Technology, Mumbai, India   **Aug 2018 - May 2022**
Bachelors of Engineering in Electronics and Telecommunications   *CGPA: 9/10*
Coursework: Web Technologies, Data Encryption and Decryption, Structured Programming Approach, Python, Machine Learning, DBMS

ACADEMIC PROJECTS

Crypto Token Market Insights Platform | CSS, React   **Aug 2023 - Dec 2023**
- Integrated cryptocurrency APIs for real-time data and historical trends, enhancing risk assessment metrics.
- Developed Python algorithms to identify market trends, boosting successful investments by 25%.
- Built a React platform for AAVE, DOT, and ETH tokens, achieving 85% accuracy in investment recommendations.

YouTube Trends Analysis | AWS, Power BI   **Jan 2023 - May 2023**
- Processed 320,000+ records using AWS S3 and optimized data with AWS Lambda, reducing conversion time by 30%.
- Improved ETL efficiency by 25% with AWS Glue, enabling advanced metric analysis and visualizations in Power BI.

University Motor Pool Database Development | DBMS, Neo4j   **Aug 2022 - Dec 2022**
- Designed EER diagrams and implemented Neo4j graph storage, cutting query times by 21.4%.
- Enhanced vehicle allocation and maintenance operations, increasing efficiency by 12%.

Brain Tumor Classification Using Deep Learning   **Aug 2020 - May 2021**
- Achieved 97.14% precision in tumor classification using VGG-16 CNN and Artificial Bee Colony optimization.
- Published research in the **International Journal of Engineering Applied Science and Technology.** - Link