ABHISHAKE YADAV

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SUMMARY

Growth-focused and motivated data scientist with a nine-year achievement record encompassing all facets of data processing, analytics, and reporting. Committed to continuous innovation, has a verifiable record of conceptualizing and delivering innovative data and analytics solutions that provide organizations with critical business insights and facilitate sustainable business success. Adept at directing cross-functional teams in completing complex projects, delivering impressive results, and exceeding all stakeholder expectations.

EXPERIENCE

Senior Geophysicist / Data Scientist   **Polarcus (Dubai, U.A.E)**
Summary: Development and deployment of cloud data analytics platform.   **2019 - Present**

- **Cloud migration:** Performed cost and benefit analysis of compute demand and utilization trends over five years to create predictive resource consumption model to right size and move the data processing infrastructure from offshore (High fixed OPEX model) to a hybrid pay as you go OPEX model in the cloud, reducing OPEX by $1.8M+ every year.
- **Business analysis:** Conducted more than 33 user interviews to gather functional requirements, assumptions, and constraints from stakeholders throughout the organization to define data mining goals and success criteria and created the overall feature backlog in JIRA to ensure that the design of the cloud solution is aligned with the business objectives.
- **Process modelling (BPMN 2.0):** Modelled and transformed more than 42 business procedures, mapping data, assessing, and identifying performance gaps and deficiencies, to develop corrective measures and accelerate improvement.
- **Data mining:** Delivered more than 10 data collection, description, quality, and exploratory analysis reports by gathering and integrating terabyte-sized volumes of siloed historical data, employing a broad range of analytic tools to outline trends and better understand quality issues, equipment failures, downtime, and revenue impact.
- **Machine learning:** Modelling, evaluation, and deployment of different machine learning models for developing a fault identification system facilitating the identification of anomalous recording sensors with an 94% accuracy rate exhibiting potential to mitigate technical downtime.
- **ML Web app development:** Designing, developing, and deploying a broad range of data analytics web apps dashboards.
- **Deep learning:** Evaluated different deep learning methods and architectures to test their applications is data interpolation and denoising.

Geophysicist / Data Scientist   **Polarcus (Dubai, U.A.E)**
Summary: Development of BI and automation solutions.   **2015 - 2019**

- **Data analysis:** Performed complex data analysis on large-scale international projects with a cumulated value of $500M+ for clients such as *ExxonMobil*, *Total*, and *Shell*.
- **Business intelligence:** Translated large data volumes into actionable intelligence, producing detailed reports for key client stakeholders.
- **Data pipelines:** Architected and introduced novel data ingestion, cleaning, processing, transformation, modeling, and validation workflows, boosting data quality, and simplifying analysis.
- **Mentoring:** Organized training workshops and seminars for real-time data quality assurance and fault detection with cross-departmental stakeholders to ensure that data quality guidelines and procedures are well understood.
- **Infrastructure management:** Troubleshot, serviced, and maintained the on-board data center (400 teraflops, 500 terabytes) while monitoring the cloud environment to identify and resolve performance issues promptly.
- **Automation:** Developed, deployed, and tested automation solutions for data management and quality assurance throughout the project lifecycle, achieving a 15% reduction in errors and improving data quality substantially.

Geophysicist / Data Scientist   **ION GX Technology (Houston, Texas)**
Summary: Operational analytics and quality assurance.   **2012 - 2015**

- **Data processing:** Designed, implemented, optimized, and monitored various data quality control and processing solutions to assess the quality of more than 2000-3000 TB of combined data volume, on projects with a cumulated value of $100M+.
- **Data analysis:** Identified complex patterns and trends, both real time and offline, producing visualizations, reports, findings, and implications to decision-makers potentially saving cumulated value of $300 K+.
- **Technical reporting:** Produced tailored data analysis, processing, quality, and visualizations depending on individual project particularities creating more than 50 technical reports vetted by scientific experts.

EDUCATION & CERTIFICATIONS

(B.E/Bachelor of Technology) (Biotechnology).   **2010**
BPMN 2.0 Foundation and practitioner (Level 1 and 2), **Azure fundamentals**

SKILLS

Core Areas: Agile Methodologies, Analytics, Automation, Business Intelligence, Change Management, Data Modeling, Data Warehousing, Deep Learning, Machine Learning, Process Improvement, Project Management, Reporting, Solution Architecture

Proficient in: Python, Scikit-learn, Dash, Docker, TensorFlow, PyTorch, Pandas, MS Azure, AWS, Heroku, Keras, Git, Spark