



ABHISHAKE YADAV

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SUMMARY

Growth-focused thought leader 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)

2019 - Present

- **Cloud migration:** Defining data and analytics standards and SOPs for the organization while serving as Subject Matter Expert on multiple data resources. Playing a key role in conceptualizing and implementing the organization's cloud data solution, leading architecture planning alongside the development team. Part of the team to implement data processing in the cloud, reducing OPEX by \$2M+ every year.
- **Project management:** Conducted more than 30 user interviews to gather and flesh out functional requirements from stakeholders throughout the organization to define deliverables and ensure that the design of the cloud solution is robust and within defined scope.
- **Process modelling (BPMN 2.0):** Modelled and transformed more than 40 business procedures, mapping data, assessing, and identifying performance gaps and deficiencies, to develop corrective measures and accelerate improvement.
- **Data mining:** Gathering and synthesizing terabyte-sized volumes of historical data, employing a broad range of analytic tools to outline trends and better understand equipment failures, downtime, and revenue impact.
- **Fault detection:** Using and testing different machine learning algorithms and developing a fault identification system with a potential to significantly reduce technical downtime.
- **Web app development:** Designing, developing, and deploying a broad range of data analytics web apps.
- **Machine learning:** Pioneering an outlier detection system by utilizing machine learning algorithms, facilitating the identification of anomalous recording sensors with a 90% accuracy rate, simultaneously reducing time to identify faulty sensors by 70%.
- **Deep learning:** Using deep learning methods and architectures to test their applications is data interpolation and denoising.
- **Data transmission:** Introducing a novel method to transfer data to multiple offshore locations simultaneously, streamlining communication, and delivering \$200K+ in savings.

Geophysicist / Data Scientist

Polarcus (Dubai, U.A.E)

2015 - 2019

- **Data analysis:** Provided complex data analysis support to large-scale clients such as Exxon, BP, and Shell, facilitating multiple international projects with a cumulated value of \$2B+.
- **Business intelligence:** Translated data 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.
- **Training:** Coordinated educational workshops and seminars for real-time data QC and fault detection with cross-departmental stakeholders.
- **Data management:** Troubleshoot, 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:** Spearheaded automation solutions, unlocking tangible operational benefits in terms of cost, scalability, availability, and quality.

Geophysicist / Data Scientist

ION GX Technology (Houston, Texas)

2012 - 2015

- **Data quality:** 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 \$1B+.
- **Data visualization:** 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).

2005 - 2009

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, Tensor-flow, Py-Torch, Pandas, MS Azure, AWS, Heroku, Keras, Git, Spark