

Liliana Bishop

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SUMMARY

Driven geophysicist with a strong foundation in AI/ML technologies applied to rock physics and geophysical analysis. Passionate about uncovering new insights through innovative solutions that leverage advanced technology. Experience conducting research and development projects within a rapid-paced environment, employing collaborative approaches to achieve effective and timely outcomes. Acknowledged for communicating complex findings clearly, fostering transparency between teams and stakeholders, and mentoring junior members to elevate team competencies. Eager to support Innovate Tech Solutions in transforming the energy landscape through cutting-edge research and application.

EXPERIENCE

Geophysicist / Rock Physicist January 2024 - Present
Innovate Tech Solutions *Austin, TX*

As a Geophysicist/Rock Physicist, led innovative R&D projects applying AI/ML technologies to geophysical analysis. Involved in driving accuracy improvements and efficiency enhancements in results for clients. Conducted advanced problem-solving initiatives, collaborating closely with industry experts on diverse multidisciplinary teams.

- Conducted R&D projects leveraging AI/ML technology to enhance geophysical analysis, resulting in a notable increase in data interpretation accuracy.
- Collaborated with a multidisciplinary team to develop novel algorithms improving workflow efficiency by streamlining processing times significantly.
- Analyzed complex geophysical datasets using advanced problem-solving techniques, leading to creative and practical solutions for client challenges.
- Developed and maintained AI/ML tools facilitating seamless integration into existing geophysical workflows, positively impacting timelines.
- Communicated research findings and project updates effectively to internal teams and external stakeholders, enhancing project visibility.
- Mentored junior team members on geophysical principles and AI/ML applications, fostering an encouraging knowledge-sharing environment.

Junior Geophysicist June 2021 - December 2023
GeoData Innovations *Houston, TX*

Served as Junior Geophysicist focusing on machine learning application within geophysical modeling. Experience included creating robust predictive models and supporting significant improvements in geophysical processes.

- Assisted in developing geophysical models utilizing machine learning strategies, contributing to projects markedly boosting predictive capabilities.
- Participated in collaborative research projects on rock physics, enriching understanding of subsurface conditions for critical client projects.
- Implemented new testing methodologies which significantly diminished errors in geophysical data collection, benefitting company projects.
- Presented findings at esteemed conferences, improving company visibility and establishing valuable relationships within the geophysical community.
- Maintained thorough documentation regarding research processes and outcomes, ensuring compliance with data privacy protocols.
- Engaged in knowledge transfer sessions that expanded team skills in emerging AI/ML technologies.

Research Assistant September 2019 - May 2021
Data Insights Lab *College Station, TX*

Actively contributed to academic research projects related to geophysical data interpretation and rock physics with opportunities to showcase discoveries through publications.

- Participated in academic inquiries focusing on geophysical data interpretation and rock physics, culminating in several peer-reviewed publications.
- Utilized statistical software to examine datasets and deliver crucial insights guiding project direction and outcomes effectively.
- Crafted presentations for prominent academic conferences, skillfully showcasing research methodologies and significant findings.
- Collaborated with faculty and researchers exploring innovative machine learning applications tailored to geophysical studies and their potential.
- Helped organize university-sponsored workshops aimed at educating colleagues about advanced geophysical techniques and methodologies.

LEADERSHIP & AWARDS

- Dean's List, Texas A&M University, 2019-2021
- Best Research Presentation, Geophysics Conference, 2020

EDUCATION

Master of Science in Geophysics 1/2 2021

Texas A&M University GPA: 3.85

***Coursework:** Geophysical Data Analysis, Machine Learning Applications, Computational Geophysics, Advanced Rock Physics*

Bachelor of Science in Physics

University of Texas at Austin GPA: 3.70

***Coursework:** Classical Mechanics, Quantum Mechanics, Thermodynamics, Electromagnetism*

College Station, TX

2019

Austin, TX

CERTIFICATIONS

- Certified Geophysicist 📅 2022
- Machine Learning Specialization 📅 2023

TECHNICAL SKILLS

- **AI/ML Tools:** TensorFlow, PyTorch, Scikit-Learn
- **Data Analysis Software:** MATLAB, Python, R
- **Geophysical Modeling Techniques:** Finite Element Method, GeoStat, Reservoir Simulation
- **Technical Documentation Standards:** ISO, IEEE, ASTM
- **Collaboration Platforms:** GitHub, Slack, Microsoft Teams
- **Cloud Computing Services:** AWS, Azure, Google Cloud
- **Statistical Modeling Software:** SAS, SPSS, Minitab
- **Project Management Tools:** JIRA, Asana, Trello
- **Machine Learning Frameworks:** Keras, XGBoost, LightGBM
- **Data Visualization Tools:** Tableau, Power BI, Matplotlib

SKILLS

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|------------------------|---------------------------|------------------------|---------------------------|
| • AI/ML Technologies | • Algorithm Development | • Problem Solving | • Documentation Standards |
| • Geophysical Analysis | • Research & Development | • Data Analysis | • Conference Presentation |
| • Rock Physics | • Team Collaboration | • Statistical Software | • Workflow Optimization |
| • Data Interpretation | • Technical Communication | • Software Integration | • Model Validation |

PROFESSIONAL AFFILIATIONS

- Member, Geophysical Society, 2020-Present
- Volunteer, STEM Outreach Program, 2021-Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST