ISFAR BASET

Reston, VA 20190 | (616) 469-7899 | isfar.baset@gmail.com | LinkedIn | Portfolio

EXPERIENCE

Shift Digital, Software and Delivery Team   **Birmingham, MI**
Data Analyst   *Nov 2021 - May 2023*
- Improved data accuracy by 25% across 10+ enterprise projects by optimizing big data ETL processes
- Worked with cross-functional teams to design scalable data architecture, delivering actionable findings to senior executives
- Streamlined operations for 12 high-value clients and saved 15 hours weekly by automating billing data processing
- Managed data migration and transformation within Databricks, creating efficient pipelines for business-critical insights
- Leveraged SQL and Python within PySpark to transform raw data into cleaned, analysis-ready datasets
- Enhanced data visibility with interactive dashboards, enabling faster decisions for key stakeholders
- Crafted technical proposals aligned with project scope and business goals, achieving near 100% customer approval rate

Array of Engineers   **Grand Rapids, MI**
Computer Engineer   *Jul 2020 - Nov 2021*
- Verified Airbus A350 avionics software using DOORS and Ansys SCADE, ensuring aerospace industry compliance
- Improved user experience by optimizing web app features with AngularJS, increasing client retention by 25%
- Introduced modular workflows for software testing, enhancing adaptability and achieving 98% on-time delivery
- Conducted A/B testing on web app features, identifying improvements to enhance functionality and usability
- Led GitHub code reviews across a multidisciplinary team, mitigating critical issues early in the development process

PROJECTS

AI Chatbot for Foundation Model Benchmarking: FMBench Assistant   **April 2025**
- Built a production-ready, serverless conversational assistant to help users explore FMBench using NLP
- Designed a modular RAG pipeline using LangGraph, FAISS, and Amazon Bedrock for embeddings and LLM generation
- Developed FastAPI backend with thread-based memory and deployed it on AWS Lambda with API Gateway integration
- Built a Streamlit frontend to simulate a chat experience, enabling real-time, context-aware conversations
- Integrated Bedrock Guardrails to ensure safe, accurate, and compliant responses across multi-turn dialogues
URL: FMBench Assistant: Full article and code

Topics and Sentiments in Reddit Data   **Aug 2023 - Dec 2024**
- Analyzed 1+ billion Reddit posts and comments over 14 months using NLP and ML, uncovering U.S. state-level trends
- Refined 109 GB of data using Spark on AWS SageMaker, achieving a 95% reduction for efficient large-scale analysis
URL: U.S. State Sentiments on Reddit

Geospatial Climate Impact Analysis   **June 2023**
- Evaluated 40+ years of climate data and delivered insights through an interactive web interface
- Generated visualizations using Python (Pandas, Seaborn, Plotly) and R (ggplot2, Quarto) to simplify complex datasets
URL: Climate Chronicles - Southeastern Utah's National Parks

EDUCATION

Georgetown University (GU)   **Washington, D.C.**
Master of Science in Data Science and Analytics | GPA: 4.0   *Aug 2023 - May 2025*

Coursework: Probabilistic Modeling and Statistical Computing, Database Systems and SQL, Advanced Data Visualization, Data Ethics and Policy, Computational Linguistics, Machine Learning App Deployment, Digital Storytelling, Big Data and Cloud Computing (**TA**), Applied Generative AI (**Lead TA**)

Leadership & Activities: **Social Committee Member** & **Lead Mentor** in the Data Science and Analytics program

Grand Valley State University (GVSU)   **Grand Rapids, MI**
Bachelor of Science in Computer Science   *Aug 2015 - May 2020*

SKILLS

Programming: Python, SQL, R, Java, C++   **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, XGBoost
Data Visualization: Tableau, Plotly, Seaborn   **Big Data & Cloud:** Apache Spark, Databricks, AWS Sagemaker
NLP: spaCy, Hugging Face Transformers, BERT   **Databases:** MySQL, PostgreSQL, MongoDB, Snowflake
Tools: Docker, Flask, Git, Quarto, CI/CD pipelines   **Statistical Methods:** A/B Testing, Regression, Bayesian Analysis