Alistair Shea

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Data Scientist

Practiced data scientist with 4 years in visualization and research analytics. Proven ability to translate business requirements into technical solutions, including machine learning (ML) models, compliance dashboards, and administrative software. Proficient in end-to-end model development, natural language processing (NLP), and business intelligence (BI) reporting. Well-versed in data ethics and policy, user research methodology, and human-centered design.

Skills

Programming Languages: Python | R | SQL | Git | HTML5 | CSS
Tools and Platforms: GitHub | Qualtrics | Microsoft Power BI | Microsoft Excel | Google Looker Studio | BigQuery | Tableau
Libraries & Frameworks: Pandas | NumPy | Regex | Scikit Learn | Seaborn | PyTorch | TensorFlow | Random Forest | Naive Bayes

Relevant Experience

Accenture, Mountain View, California   **October 2022 – August 2025**
Business Intelligence (BI) Analyst: National Healthcare Company, January 2025 - August 2025
- Deployed 6 interactive Power BI dashboards to modernize vendor SLA oversight for Health Risk Assessments (HRAs).
- Transformed Excel data and constructed DAX queries to augment analysis and deliver actionable insights for stakeholders.
- Generated synthetic test data in Python to augment limited datasets, enabling reliable solution input.

Software Developer: Public Health Organization, May 2024 – October 2024
- Built a scalable Python application to reduce administrative effort and automate healthcare facility survey reporting.
- Trained and evaluated PDF processing libraries to determine the best fit for seamless report generation.
- Engineered and deployed an ETL pipeline to convert Excel data to JSON, enabling consistent downstream input.
- Conducted iterative testing on sample data to validate output reliability and alignment with reporting standards.

Prompt Engineer: International Technology Company, April 2023 – June 2023
- Crafted and optimized 600+ high-quality prompts to train a Large Language Model (LLM) on real-world use cases.
- Proofread and refined peer submissions to ensure model consistency and adherence to prompt constraints.

Business Intelligence (BI) Analyst: International Energy Company, December 2022 – March 2023
- Designed 10 dynamic Power BI dashboards to visualize and track data center migration progress across 50+ countries.
- Normalized and integrated Excel data from 517 locations into Power BI to enable scalable, real-time reporting.
- Mapped and transformed data points into a relational model to identify KPIs for site-level performance against timelines.
- Applied DAX to transform raw data into key performance metrics for the migration of 12.75K servers.

National Center for Supercomputing Applications, Urbana, Illinois   **June 2021 – July 2022**
Research Assistant: Advanced Visualization Lab
- Collaborated in a cross-functional team to validate the use of user-generated content (UGC) for impact analysis.
- Employed NLP in Python to segment 2K+ user-generated documentary reviews, streamlining corpus annotation.
- Developed and fine-tuned a predictive model in Python to classify the impact found in 767 user-generated reviews.
- Synthesized and presented findings to stakeholders, demonstrating the viability of UGC for measuring perceived impact.

University of Illinois, Urbana, Illinois   **August 2020 – November 2021**
Research Assistant: College of Education
- Designed and conducted a Qualtrics survey examining 200+ student perspectives on learning analytics in higher education.
- Standardized, cleaned, and encoded survey data in Excel to ensure data integrity and aid downstream analysis.
- Performed statistical analysis in R Studio to identify significant trends, correlations, and relationships in quantitative data.
- Authored a research paper synthesizing statistical results and recommendations for stakeholders in higher education.

Education

Bachelor of Science (BS) Information Sciences, University of Illinois at Urbana-Champaign

Awards & Certifications

Amazon Web Services (AWS) Certified Cloud Practitioner   (Earned) November 2023
Fiddler Innovation Fellowship Awardee   (Earned) April 2021