Ryan M. Burns

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PERSONAL SUMMARY

Experienced Data Scientist with the proven ability to extract insights from data, construct and automate complex data lineages, and design predictive models using advanced ML and AI techniques in an operational environment.

EDUCATION

Northwestern University, *Evanston, IL*   **Master of Science, June 2022**
- M.S. in Data Science, Artificial Intelligence Specialization (GPA: 3.67)

Duke University, *Durham, NC*   **Bachelor of Arts, September 2017**
- B.A. in Public Policy Studies, Minor in Political Science (GPA: 3.35)

PROGRAMMING & TECHNICAL SKILLS

Language/Software	Competency	Applications
Python	*Expert*	Structured & unstructured data mining & web scraping, AI, ML, NLP
SQL	*Expert*	Query and data manipulation in RDBMS, NoSQL, and graph databases
Scala	*Expert*	Dataset and feature design, model pipeline training and QA testing
VBA/MS Access	*Expert*	DB development, API calls and data cleansing, SQL Server DB linkages
R	*Intermediate*	Visualization & statistical inference, distributed data collection/processing
Cloud DevOps	*Beginner*	Azure/AWS serverless app build, cloud data storage, and deployment

Project Highlights   **More projects & code available at** ryanmburns93.github.io

Lease Renewal Modeling
- Modeled the likelihood an apartment resident will renew their lease by renewal offer price and connected leasing and operational cost models to optimize pricing and deliver recommendations to property managers.

NLP Language Model Training
- Pretrained BERT masked language models on domain vocabulary from client-facing research documents and finetuned to categorize client consultation requests by topic, achieving accuracy gains versus baseline.

CoStar Property Data Web Scraping Program
- Reverse-engineered CoStar's Express.js-driven API to access the GraphQL back-end server. Automated data collection, cleaning, and SQL storage of 850+ properties to enable market analysis and price modeling.

PROFESSIONAL EXPERIENCE

Certilytics, Leading healthcare predictive analytics partner improving patient outcomes   **Mar 2023 – Present**
Data Scientist
- Apply cutting-edge AI, ML, and NLP techniques to build client-tailored models predicting member health outcomes, system utilization, and cost savings for more than 100 conditions and over 30M patients weekly.
- Design, scale, and automate ML-Ops processes for model suite retraining, QA testing, and monitoring.
- Deliver model results and actionable insights directly to clients, serving as a subject-matter expert and trusted partner to advance product adoption and identify new projects and additional business opportunities.

AIR Communities, Fourth-largest U.S. apartment REIT with 96 communities in 12 states   **Nov 2021 – Mar 2023**
Innovation & Automation Associate
- Designed predictive models for business stakeholders as the project lead through the full data science life cycle. Automated data collection, cleansing, and storage, applied AI/ML tools and measured model performance, and deployed and maintained models in production using DevOps best practices.
- Reduced database migration QA project staffing by 15 employees via scripting automated validation tests, constructed Power Apps for visitor record and maintenance ticket continuity during system downtime.

Gartner, Inc., World's leading research advisory company with annual revenue of $4B   **Aug 2017 – Oct 2021**
Client Success Partner   2 years
- Diagnosed top challenges of ~150 C-suite finance, procurement, and real estate executives representing a client territory of $4.5M contract value. Tailored the client experience by providing relevant research and case studies, benchmarking surveys, networking events, and advisory discussions with experts.

Associate Client Partner   11 months
Account Management Associate/Specialist   6 months/6 months