Ryan M. Burns

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PERSONAL SUMMARY

Analytical problem solver with the proven ability to extract insight from data, construct and automate advanced data lineages, and develop predictive models using advanced ML and AI techniques in an operational environment.

EDUCATION

Northwestern University, *Evanston, IL*   **Master of Science, June 2022 (Expected)**
- M.S. in Data Science, Artificial Intelligence Specialization
- GPA: 3.86

Duke University, *Durham, NC*   **Bachelor of Arts, September 2017**
- B.A. in Public Policy Studies, Minor in Political Science
- GPA: 3.35, In-major GPA: 3.61

PROGRAMMING & TECHNICAL SKILLS

Language/Software	Competency	Applications
Python	*Expert*	Structured & unstructured data mining & web scraping, AI, ML, NLP
R	*Expert*	Visualization & statistical inference, distributed data collection/processing
SQL	*Expert*	Query and data manipulation in RDBMS, NoSQL, and graph databases
VBA/MS Access	*Expert*	DB development, API calls and data cleansing, SQL Server DB linkages
Power Apps/Bi	*Intermediate*	User data collection app construction, data visualization, report automation
DataRobot	*Intermediate*	AutoML EDA, model construction, and operational deployment

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

CoStar Property Data Web Scraping Program
- Reverse-engineered CoStar's GraphQL DB to automate the collection and preprocessing of more than forty attributes for 850+ properties prior to injection into a SQL table for market analysis and price modeling.

Audio Recording and Transcription Toolkit
- Strengthened service-sales partnerships and team onboarding by automating the collection, transcription, and labelling of audio recordings from multiple cloud services into an internal knowledge base.

NLP Language Model Pretraining
- 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.

PROFESSIONAL EXPERIENCE

AIR Communities, REIT owning & operating one of the largest U.S. apartment portfolios   **Nov 2021 – Present**
Innovation & Automation Associate
- Leading construction of a novel internal property market intelligence capability by automating the collection, cleansing, and storage of competitor pricing data and developing predictive pricing models.
- Support database migration by automating QA validation tests, constructing Power Apps to provide visitor record and maintenance request continuity, and leading a support team of five in validation activities.

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

Associate Client Partner   11 months
- Delivered tailored service for high contract renewals in the largest Global Business Services client territory.

Account Management Specialist   6 months
- Communicated with peers to transfer real estate product knowledge during product reconfiguration.

Account Management Associate   6 months
- Created an automated weekly territory engagement dashboard in Excel, deployed macro to thirty peers, and conducted a training session, saving ~120 hour per week while informing account management strategy.