Ethan Rohman

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EDUCATION

Drake University

Des Moines, IA

Bachelor of Science in Computer Science; GPA: 3.86

EXPERIENCE

UnitedHealth Group (Surest: A UnitedHealth Care Company)

Minneapolis, MN

May 2022 - May 2024

- Data Saismas Interm
 - Data Analysis: Conducted a comprehensive analysis of text message campaigns to assess engagement increases, utilizing Python, Pandas, and SQL for data manipulation and analysis.
 Machine Learning: Developed a question-answer bot using sentence transformers and built a vector store with a
 - Machine Learning: Developed a question-answer bot using sentence transformers and built a vector store with a custom embedding model for enhancing search capabilities, managed deployment with MLflow, and fine-tuned chat models for suggesting answers to partial questions.
 - Search Engine Improvement: Designed extension of search feature using embedding models, including building a custom vector store for improved search results and user experience.
 - **Interactive Development**: Solved for creating and testing with local instances of Elasticsearch to fine-tune search parameters.
 - Data Engineering: Contributed to complex pyspark pipelines in Databricks and Ascend, including interacting with AWS S3, employing GitHub for source control and automation in Jenkins.
 - **Presentations**: Formally presented findings and projects to groups as large as 40, demonstrating strong communication skills and the ability to translate complex technical details into business insights.
 - **Agile Methodologies**: Experienced in Agile development methodologies, actively participating in sprints, managing stories in Jira, and utilizing Notion for project documentation and collaboration.

DoughFlow Project

repo: DoughFlow

May 2024 - July 2024

• Finance Web Application: Collaborating on a finance web application using a PostgreSQL, Django, and Next.js tech stack, focusing on developing robust backend and frontend components as part of a team project.

Individual Senior Project

Drake University

repo: Informational UI Thesis Study

Jan 2024 - May 2024

• UI/UX Study: Conducting a UI/UX study as a solo project, using informational document to test various UI/UX components and identify combinations that enhance user experience. Used Figma for UI/UX design mockups and for prototype testing.

PROJECTS

- Question Answering Bot: Built a deterministic outcome question-answering bot using sentence transformers, enhancing customer support operations.
- Text Message Campaign Analysis: Analyzed text message campaigns for a health insurance company to determine engagement increases, using data science techniques.

Programming Skills

- Languages: Python, SQL, Javascript, HTML, CSS
- Technologies/Tools: Linux Development, Pandas, PySpark, GitHub, MLflow, Elasticsearch, Boto3, Docker, Django, PostgreSQL, Next.js, AWS, AWS CLI, Notion, Jira, Lucidchart, Figma, Databricks, Ascend

Related Coursework

- Machine Learning: Explored development of programs that learn from data, covering key algorithms and techniques in machine learning. Topics included CNNs, Random Forests, PCA, instance-based learning, Bayesian methods, and NLP.
- Cloud and Database Systems: Covered virtualization, Python programming, the Hadoop ecosystem, and comprehensive use of Amazon Web Services. Also included database querying techniques with both SQL and NoSQL databases.
- Advanced Linear Algebra: Studied advanced concepts in linear algebra, underpinning many machine learning and data analysis algorithms.