

James Kocak

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SUMMARY

Passionate Computer Science student specializing in Data Science and Data Engineering, experienced in building data pipelines, statistical analysis, and machine learning models. Skilled in Python, SQL, Databricks, Apache Spark, and modern data frameworks.

EDUCATION

North Carolina State University | Raleigh, NC

May 2025

Bachelor of Science in Computer Science

GPA: 3.6/4.0, Dean's List

Relevant Courses: Data Structures & Algorithms, Database Management Systems, Software Engineering, Operating Systems, C/Software Tools, Intro to Artificial Intelligence, Introduction to Responsible Machine Learning, Trustworthy and Efficient Deep Learning

SKILLS

Languages: Java, Python, C, C++, C#, SQL, JavaScript, HTML, CSS

Frameworks & Libraries: React, Spring, Django, REST, Hibernate, JUnit, NumPy, Pandas, matplotlib, PyTorch, TensorFlow, STL (C++)

Databases & Data Technologies: MySQL, MongoDB, PostgreSQL, SimpleDB, Apache Spark, Apache Maven

Tools & Platforms: Databricks, Git/GitHub, Jenkins, GitHub Actions, Docker, Makefile, CMake, Eclipse, Visual Studio, VSCode, Linux

CERTIFICATIONS & EXTRACURRICULARS

Databricks Certified Data Engineer Associate | Databricks

March 2025

Microsoft Azure AI Essentials Professional Certificate | Microsoft

In Progress

NCSU Hackathon Participant 2025 | NC State University

February 2025

PROJECTS

Machine Learning Pipeline Exploration | *Introduction to Responsible Machine Learning*

January 2025 - Present

- Created detailed dataset descriptions, identifying 15+ key features, data types, and potential biases; clearly defined a hypothetical ML use-case by specifying the problem statement, stakeholders involved, and potential ethical implications related to fairness
- Built a trustworthy ML pipeline encompassing data preprocessing (5+ preprocessing techniques), targeted feature selection methods, and model comparisons (including logistic regression and decision trees), while systematically evaluating performance
- Integrated 2+ trustworthiness interventions (including fairness metrics and interpretability tools) within the ML pipeline, systematically addressing potential biases, transparency concerns, and robustness through comprehensive evaluation techniques

Data Product Catalog | *Statistical Analysis System (SAS) Senior Design Project*

January 2025 - Present

- Designed and implemented a scalable data ingestion pipeline capable of processing and managing metadata files with millions of records, ensuring efficient storage and rapid access in a structured PostgreSQL database
- Developed an identification algorithm capable of analyzing millions of data records to suggest optimal matches for data product blueprints, achieving execution times consistently under 1 minute
- Implemented full CRUD functionality and metadata ingestion for data product blueprints and instances, supporting seamless management and scalable versioning of 10,000+ data assets

Synthea Data Generation | *Personal Project*

March 2025

- Engineered synthetic healthcare datasets using Synthea API and Java to generate patient records in CSV/JSON
- Simulated realistic healthcare scenarios to improve ML evaluation and reduce false positives
- Optimized data workflows by orchestrating ingestion, validating pipelines, and designing privacy-friendly simulations

WORK EXPERIENCE

Target | Front of Store Attendant

December 2020 - December 2022

- Leveraged analytical and problem-solving skills in a fast-paced environment, significantly streamlining workflow efficiency