

Spencer Nash

Junior Machine Learning Engineer / BI Analyst

📞 (919) 555-0184 ✉️ spencer.nash.analytics@example.com 🔗 linkedin.com/example/spencernash 📍 Raleigh, NC 27606

SUMMARY

Junior machine learning engineer and BI analyst with two years of applied academic experience building Python models, SQL reporting workflows, and cloud-ready data solutions. Computer science training spans machine learning, artificial intelligence, **data analysis**, **business intelligence**, **software engineering**, **automation**, DevOps, and database design. Delivered supervised banking-services and budgeting projects that turned stakeholder questions into documented datasets, dashboards, and predictive prototypes. Comfortable with Python, Java, SQL, pandas, scikit-learn, Tableau, Git, Docker, AWS, REST APIs, and PostgreSQL. Practical work covers DSA, system design, SQL, model evaluation, pipeline automation, technical documentation, and behavioral storytelling. Ready to bring curiosity, steady execution, and thoughtful communication to a team building dependable software, analytics, and ML solutions.

EDUCATION

Bachelor's Degree in Computer Science

North Carolina State University 🎓 GPA: 3.8 📅 2026 📍 Raleigh, NC

Coursework: Machine Learning, Data Analysis, Business Intelligence, Software Engineering, Database Design

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL
- **Machine Learning:** scikit-learn, Model Evaluation, Classification
- **Data Analysis:** pandas, Data Profiling, Forecasting
- **Business Intelligence:** Tableau, Dashboards, Calculated Fields
- **Cloud Platforms:** AWS, AWS Academy Cloud Foundations, Cloud Computing
- **DevOps Tools:** Docker, GitHub Actions, Git
- **Databases:** PostgreSQL, Star Schema, SQL Queries
- **Software Engineering:** REST APIs, Unit Testing, Structured Logging
- **Automation:** Python Scripts, CI Pipelines, Build Checks
- **Data Structures:** DSA, Algorithms, Complexity Analysis
- **System Design:** Service Design, Integration Patterns, Scalability
- **Documentation:** README Files, Model Cards, Technical Guides

SKILLS

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|---------------------------|-------------------------|--------------------|------------------------|
| • Analysis Skills | • Business Intelligence | • DevOps | • Python |
| • Artificial Intelligence | • Cloud Computing | • Java | • Software Engineering |
| • Automation | • Data Analysis | • LinkedIn | • SQL |
| • Banking Services | • Data Science | • Machine Learning | |

EXPERIENCE

Machine Learning Engineering Research Assistant

University Machine Learning Lab 📅 August 2025 - Present 📍 Raleigh, NC

Faculty-guided research role supporting supervised **machine learning**, reproducible experiments, data preparation, model evaluation, Docker delivery, and clear technical communication for banking-services analysis.

- Built Python classification pipeline for banking-services data with reproducible experiment notes and clean feature preparation.
- Compared logistic regression, random forest, and gradient boosting through precision, recall, F1, and confusion matrices.
- Automated pandas data preparation scripts, shortening weekly experiment setup and improving review consistency for researchers.
- Containerized prototype with Docker and documented dependencies, configuration, and local execution for four-person research team.
- Presented model assumptions, error patterns, and fairness considerations during lab reviews for timely faculty feedback.
- Published repository with SQL extracts, model cards, test cases, and README supporting professional ML documentation.

Junior BI Analyst, Academic Capstone

Capstone Business Intelligence Project 📅 January 2025 - May 2025 📍 Raleigh, NC

Business intelligence role delivering SQL analysis, Tableau reporting, Python trend analysis, and documented recommendations for simulated banking budgeting and branch right-sizing decisions.

- Designed banking intelligence solution linking branch **budgeting**, service demand, account activity, and **right-sizing** decisions.

- Wrote SQL against star-schema warehouse with 180,000 anonymized records and validated reconciliation totals.
- Created Tableau dashboards covering budget variance, service volume, account activity, and branch comparisons for stakeholders.
- Profiled seasonal trends with Python and pandas, producing documented forecasting inputs for budgeting workshops.
- Translated five stakeholder questions into dashboard requirements, wireframes, calculated fields, and acceptance checks.
- Delivered recorded presentation and implementation guide earning top-tier evaluation for clarity, traceability, and decision usefulness.

Python/Java Developer, University Project

Software Engineering and Cloud Automation Project 📅 August 2024 - December 2024 📍 Raleigh, NC

Software engineering role delivering a Java and Python service prototype with REST integration, PostgreSQL, automated testing, Docker Compose, and GitHub Actions for a simulated operations workflow.

- Developed **Java** and Python service ingesting support events and exposing summary metrics for **business intelligence**.
- Implemented REST endpoints, validation rules, structured logging, and unit tests within a shared codebase.
- Configured GitHub Actions for tests, linting, and build checks on every repository change.
- Connected application with PostgreSQL through Docker Compose and documented environment setup for peer evaluators.
- Applied SQL aggregation and Python analysis to identify backlog patterns for an operations review.
- Explained design tradeoffs, failure handling, deployment steps, and ML opportunities during department showcase.

PROJECTS

Banking Services Risk Classifier 📅 2026

Built a documented Python and scikit-learn prototype for imbalanced account-risk analysis. Compared models, recorded evaluation results, and presented fairness considerations in a professional review format.

Branch Budget Intelligence Dashboard 📅 2025

Created SQL and Tableau reporting for simulated bank branches. Connected budget variance, service demand, and operational right-sizing views so finance stakeholders could discuss decisions with shared evidence.

Cloud Operations Event Service 📅 2024

Developed Java and Python REST services with PostgreSQL, Docker Compose, GitHub Actions, logging, and tests. Project demonstrated deployable software engineering habits beyond classroom exercises.

PORTFOLIO

Title: Professional Project Repository

Link: [linkedin.com/example/spencernash](https://www.linkedin.com/example/spencernash)

Description: Selected ML, BI, Java, Python, and cloud automation work presented through documented project evidence.

LEADERSHIP & AWARDS

- Dean's List, North Carolina State University, Fall 2024 and Spring 2025
- Best Applied Analytics Presentation, College Capstone Showcase, 2025
- Undergraduate Research Poster Finalist, North Carolina State University, 2026

CERTIFICATIONS

- Google Data Analytics Professional Certificate 📅 2025
- AWS Academy Cloud Foundations 📅 2025
- Machine Learning with Python, IBM SkillsBuild 📅 2026

PROFESSIONAL AFFILIATIONS

- Machine Learning Lab Peer Mentor, North Carolina State University, 2025-2026
- Treasurer, Computer Science Student Association, 2024-2025
- Volunteer Workshop Presenter, Data and Analytics Student Group, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST